

=> d his full

Claim 1

FILE 'REGISTRY' ENTERED AT 11:13:50 ON 19 DEC 2005

L2 0 SEA ABB=ON PLU=ON (AG) {5-8}PEG| (AG) {5-8}PEG(AG) {5-8}PEG| (AG) {5-8}PEG(AG) {5-8}PEG(AG) {5-8}PEG| (AG) {5-8}PEG(AG) {5-8}PEG| (AG) {5-8}PEG(AG) {5-8}PEG| (AG) {5-8}PEG/SQSP

L3 0 SEA ABB=ON PLU=ON (AG) {5-8}PEG/SQSP

L4 251 SEA ABB=ON PLU=ON (AG) {5-8}/SQS

L5 0 SEA ABB=ON PLU=ON AGAGAGAGAGPEG| AGAGAGAGAGAGPEG| AGAGAGAGAGAGA GPEG| AGAGAGAGAGAGAGAGPEG/SQSP
E AGAGAGAGAG

FILE 'CAPLUS' ENTERED AT 11:22:19 ON 19 DEC 2005

E TIRRELL D/AU

L6 409 SEA ABB=ON PLU=ON TIRRELL D?/AU

L7 7 SEA ABB=ON PLU=ON L6 AND FUSION/OBI

L8 0 SEA ABB=ON PLU=ON L7 AND P/DT

FILE 'REGISTRY' ENTERED AT 11:24:34 ON 19 DEC 2005

L9 12 SEA ABB=ON PLU=ON (62607-09-4/BI OR 1461-15-0/BI OR 170832-41 -4/BI OR 25087-26-7/BI OR 25722-70-7/BI OR 50812-37-8/BI OR 5283-66-9/BI OR 862917-15-5/BI OR 862917-16-6/BI OR 9003-01-4/B I OR 9047-01-2/BI OR 9055-66-7/BI)

L10 3 SEA ABB=ON PLU=ON L9 AND PS/FS
D SCAN

L11 251 SEA ABB=ON PLU=ON (AG) {5-8}/SQSP\

L12 255120 SEA ABB=ON PLU=ON PEG/SQSP

L13 370 SEA ABB=ON PLU=ON L12 AND SQL<10

FILE 'CAPLUS' ENTERED AT 11:26:15 ON 19 DEC 2005

L14 133 SEA ABB=ON PLU=ON L11

L15 224 SEA ABB=ON PLU=ON L13

L16 0 SEA ABB=ON PLU=ON L14 AND L15

L17 1 SEA ABB=ON PLU=ON L11/D
D SCAN

L18 172739 SEA ABB=ON PLU=ON FUSION/OBI QR CHIMER?/OBI

L19 5 SEA ABB=ON PLU=ON L18 AND L14
D SCAN

FILE 'REGISTRY' ENTERED AT 11:31:08 ON 19 DEC 2005

L20 2155013 SEA ABB=ON PLU=ON (AG) {0-8}EG/SQSP

L21 25163 SEA ABB=ON PLU=ON (AG) {1-8}EG/SQSP

FILE 'CAPLUS' ENTERED AT 11:33:40 ON 19 DEC 2005

L22 4854 SEA ABB=ON PLU=ON L21.

L23 434 SEA ABB=ON PLU=ON L22 AND L18.

L24 114 SEA ABB=ON PLU=ON L23 AND PY<2001,

L25 29144 SEA ABB=ON PLU=ON MICROARRAY?/OBI

L26 2 SEA ABB=ON PLU=ON L24 AND L25.
D SCAN TI

L27 246792 SEA ABB=ON PLU=ON PROTEIN SEQUENCE#/OBI

L28 101 SEA ABB=ON PLU=ON L24 AND L27.

L29 QUE ABB=ON PLU=ON 209215-07-6/OBI OR 223775-30-2/OBI

L30 5 SEA ABB=ON PLU=ON 209215-07-6/OBI OR 223775-30-2/OBI

L33 86 SEA ABB=ON PLU=ON L28 AND P/DT

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 11:40:09 ON 19 DEC 2005
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```

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2
DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,      *
* effective March 20, 2005. A new display format, IDERL, is now        *
* available and contains the CA role and document type information.   *
*
*****
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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L2          0 SEA FILE=REGISTRY ABB=ON  PLU=ON  (AG) {5-8}PEG| (AG) {5-8}PEG(AG)
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                                                               both seq 1 and 2
                                                               together
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FILE 'CAPLUS' ENTERED AT 11:44:24 ON 19 DEC 2005
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FILE COVERS 1907 - 19 Dec 2005 VOL 143 ISS 26
FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que l16

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L11      251 SEA FILE=REGISTRY ABB=ON PLU=ON (AG){5-8}/SQSP
L12      255120 SEA FILE=REGISTRY ABB=ON PLU=ON PEG/SQSP
L13      370 SEA FILE=REGISTRY ABB=ON PLU=ON L12 AND SQL<10
L14      133 SEA FILE=CAPLUS ABB=ON PLU=ON L11
L15      224 SEA FILE=CAPLUS ABB=ON PLU=ON L13
L16      0 SEA FILE=CAPLUS ABB=ON PLU=ON L14 AND L15
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claim 1

SEQ 1 e

2

=> d que l17

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L11      251 SEA FILE=REGISTRY ABB=ON PLU=ON (AG){5-8}/SQSP
L17      1 SEA FILE=CAPLUS ABB=ON PLU=ON L11/D
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=> d que l19

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L11      251 SEA FILE=REGISTRY ABB=ON PLU=ON (AG){5-8}/SQSP
L14      133 SEA FILE=CAPLUS ABB=ON PLU=ON L11
L18      172739 SEA FILE=CAPLUS ABB=ON PLU=ON FUSION/OBI OR CHIMER?/OBI
L19      5 SEA FILE=CAPLUS ABB=ON PLU=ON L18 AND L14
```

=> d .ca hitstr l17; d .ca hitstr l19 1-5

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:8949 CAPLUS
DOCUMENT NUMBER: 120:8949
TITLE: synthesis and characterization of periodic polypeptides containing repeating-(AlaGly)_xGluGly-sequences
AUTHOR(S): Deguchi, Yoshikuni; Krejchi, Mark T.; Borbely, Janos; Fournier, Maurille J.; Mason, Thomas L.; Tirrell, David A.
CORPORATE SOURCE: Dep. Polym. Sci. Eng., Univ. Massachusetts, Amherst, MA, 01003, USA
SOURCE: Materials Research Society Symposium Proceedings (1993), 292(Biomolecular Materials), 205-10
CODEN: MRSPDH; ISSN: 0272-9172
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 08 Jan 1994
AB A series of periodic polypeptides [(Ala-Gly)_x-Glu-Gly]_n (x = 3-6, n = 10, 14, 18, 20, 28, 36) have been expressed from E. coli with the objective of understanding the role of chemical sequence in determining the chain folding

behavior of periodic macromols. Mol. organization was examined by IR spectroscopy and ^1H and ^{13}C NMR methods, and a preliminary model of the folded structure has been developed.

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 3, 22

IT 151734-40-6D, reaction products with peptide homopolymers 151734-41-7D, reaction products with peptide homopolymers 151755-40-7D, oligopeptide terminated 151755-42-9D, oligopeptide terminated 151755-44-1D, oligopeptide terminated 151755-46-3D, oligopeptide terminated

RL: PROC (Process)

(expression of, from *E. coli*, and cyanogen bromide cleavage of, periodic peptide polymer from)

IT 151755-44-1D, oligopeptide terminated 151755-46-3D, oligopeptide terminated

RL: PROC (Process)

(expression of, from *E. coli*, and cyanogen bromide cleavage of, periodic peptide polymer from)

RN 151755-44-1 CAPLUS

CN Glycine, L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L- α -glutamyl-, homopolymer (9CI) (CA INDEX NAME)

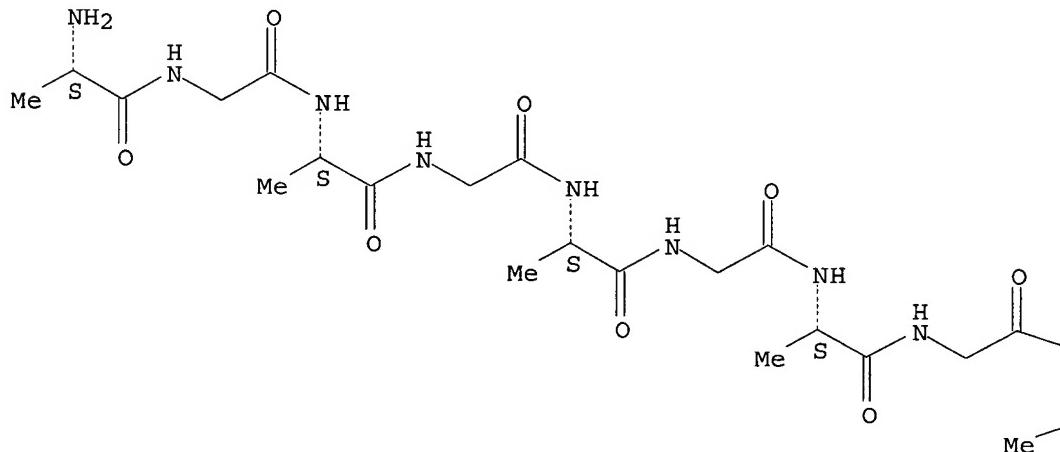
CM 1

CRN 151755-43-0

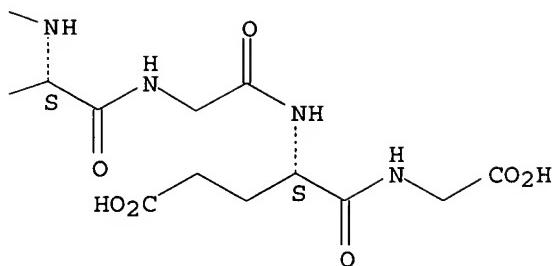
CMF C32 H52 N12 O15

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RN 151755-46-3 CAPLUS

CN Glycine, L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglutamyl-, homopolymer (9CI) (CA INDEX NAME)

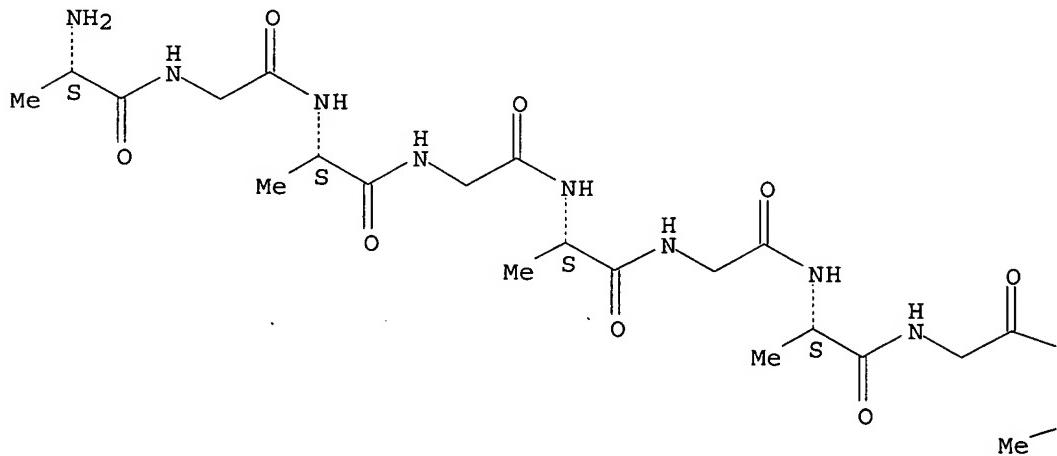
CM 1

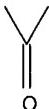
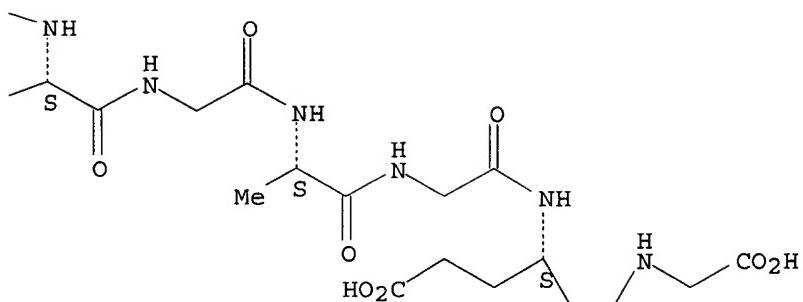
CRN 151755-45-2

CMF C37 H60 N14 O17

Absolute stereochemistry.

PAGE 1-A





L19 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:1242711 CAPLUS
 TITLE: Chimeric proteins comprising IgG and biological active molecules for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases
 INVENTOR(S): Peters, Robert T.; Mezo, Adam R.; Rivera, Daniel S.; Bitonti, Alan J.; Low, Susan C.; Stattel, James
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 102 pp., Cont.-in-part of U.S. Ser. No. 841,250.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005260194	A1	20051124	US 2005-29003	20050105

US 2005032174	A1	20050210	US 2004-841250	20040506
PRIORITY APPLN. INFO.:			US 2003-469600P	P 20030506
			US 2003-487964P	P 20030717
			US 2004-539207P	P 20040126
			US 2004-841250	A2 20040506

ED Entered STN: 25 Nov 2005

AB The invention relates to a chimeric monomer-dimer hybrid protein wherein said protein comprises a first and a second polypeptide chain. The said first polypeptide chain comprises at least a portion of an Ig constant region and a biol. active mol. The said second polypeptide chain comprising at least a portion of an Ig constant region without the biol. active mol. of the first chain. The invention also relates to methods of using and methods of making the chimeric monomer-dimer hybrid protein of the invention. The biol. active mol. is a viral or HIV fusion inhibitor, clotting factor, interferon- α , interferon- β , erythropoietin.

IC ICM A61K039-395

ICS C07K016-44

INCL 424133100; 530387300

CC 15-3 (Immunochemistry)

Section cross-reference(s): 3, 9, 63

ST sequence rat antiviral agent chimeric IG hybrid interferon; monomer dimer Ig factor IX hemostatics virus infection

IT Hemophilia

(A; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Hemophilia

(B; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Protein motifs

(FcRn binding; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)

(IgG1; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)

(IgG2; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)

(IgG; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems

(aerosols; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Labels

(affinity tag; chimeric proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(buccally; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Ischemia, disease
(cardiac; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Ischemia, disease
(cerebral; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Anemia (disease)
Antiviral agents
Blood serum
Coiled-coil
Disulfide group
Human
Human immunodeficiency virus 1
Molecular association
Mutagenesis
Rattus
(**chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Blood-coagulation factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(**chimeric**; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Artery, disease
(coronary; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Bond
(covalent; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Heart, disease
(failure, chronic; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Heart, disease
(failure; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(fragments; **chimeric** proteins comprising IgG and biol. active mols. for treating viral infection, hemostatic disorder, hemophilia, anemia or bleeding diseases)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
BIOL (Biological study); PREP (Preparation)
(fusion products; **chimeric proteins comprising IgG**
and biol. active mols. for treating viral infection, hemostatic
disorder, hemophilia, anemia or bleeding diseases)

IT Heart, disease
(infarction; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(injections, i.v.; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(injections, s.c.; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(injections; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Reperfusion
(injury; **chimeric proteins comprising IgG and biol. active**
mols. for treating viral infection, hemostatic disorder, hemophilia,
anemia or bleeding diseases)

IT Brain, disease
Heart, disease
(ischemia; **chimeric proteins comprising IgG and biol. active**
mols. for treating viral infection, hemostatic disorder, hemophilia,
anemia or bleeding diseases)

IT Protein motifs
(leucine zipper; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Peptides
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
BIOL (Biological study); PREP (Preparation)
(linker (EPO), EFAGAAAV; **chimeric proteins comprising IgG and**
biol. active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(nasal; **chimeric proteins comprising IgG and biol. active**
mols. for treating viral infection, hemostatic disorder, hemophilia,
anemia or bleeding diseases)

IT Drug delivery systems
(oral; **chimeric proteins comprising IgG and biol. active**
mols. for treating viral infection, hemostatic disorder, hemophilia,
anemia or bleeding diseases)

IT Drug delivery systems
(parenterals; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(pulmonary route; **chimeric proteins comprising IgG and biol.**
active mols. for treating viral infection, hemostatic disorder,
hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
(rectal; **chimeric proteins comprising IgG and biol. active**
mols. for treating viral infection, hemostatic disorder, hemophilia,
anemia or bleeding diseases)

IT Injury
 (reperfusion; **chimeric** proteins comprising IgG and biol.
 active mols. for treating viral infection, hemostatic disorder,
 hemophilia, anemia or bleeding diseases)

IT Brain, disease
 (stroke; **chimeric** proteins comprising IgG and biol. active
 mols. for treating viral infection, hemostatic disorder, hemophilia,
 anemia or bleeding diseases)

IT Drug delivery systems
 (sublingual; **chimeric** proteins comprising IgG and biol.
 active mols. for treating viral infection, hemostatic disorder,
 hemophilia, anemia or bleeding diseases)

IT Drug delivery systems
 (vaginal; **chimeric** proteins comprising IgG and biol. active
 mols. for treating viral infection, hemostatic disorder, hemophilia,
 anemia or bleeding diseases)

IT Infection
 (viral; **chimeric** proteins comprising IgG and biol. active
 mols. for treating viral infection, hemostatic disorder, hemophilia,
 anemia or bleeding diseases)

IT Interferons
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 BIOL (Biological study); PREP (Preparation)
 (α ; **chimeric** proteins comprising IgG and biol. active
 mols. for treating viral infection, hemostatic disorder, hemophilia,
 anemia or bleeding diseases)

IT Interferons
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 BIOL (Biological study); PREP (Preparation)
 (β ; **chimeric** proteins comprising IgG and biol. active
 mols. for treating viral infection, hemostatic disorder, hemophilia,
 anemia or bleeding diseases)

IT 9001-25-6P, Blood-coagulation factor VII 9001-28-9P, factor ix
 11096-26-7P, Erythropoietin 65312-43-8P, Factor VIIa
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 BIOL (Biological study); PREP (Preparation)
 (**chimeric** proteins comprising IgG and biol. active mols. for
 treating viral infection, hemostatic disorder, hemophilia, anemia or
 bleeding diseases)

IT 870020-30-7 870020-32-9 870020-34-1 870020-36-3 870020-38-5
 870020-40-9 870020-42-1 870020-44-3 870020-46-5 870020-48-7
 870020-50-1 870020-52-3 870020-53-4 870020-54-5 870020-55-6
 870020-56-7 870020-57-8 870020-58-9 870020-59-0 870020-60-3
 870020-61-4 870020-62-5 870020-63-6 870020-64-7 870020-65-8
 870020-66-9 870020-67-0 870020-68-1 870020-69-2 870020-70-5
 870020-71-6 870020-72-7 870020-73-8 870020-74-9 870020-75-0
 870020-76-1 870020-77-2 870020-78-3 870020-79-4 870020-80-7
 870020-81-8 870020-82-9 870020-83-0 870020-84-1 870020-85-2
 870020-86-3 870020-87-4 870020-88-5 870020-89-6 870020-90-9
 870020-91-0
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; **chimeric** proteins comprising
 IgG and biol. active mols. for treating viral infection, hemostatic
 disorder, hemophilia, anemia or bleeding diseases)

IT 870020-26-1 870020-27-2 870020-28-3 870020-29-4 870020-31-8
 870020-33-0 870020-35-2 870020-37-4 870020-39-6 870020-41-0
 870020-43-2 870020-45-4 870020-47-6 870020-49-8 870020-51-2
 RL: PRP (Properties)
 (unclaimed protein sequence; **chimeric** proteins comprising IgG
 and biol. active mols. for treating viral infection, hemostatic

disorder, hemophilia, anemia or bleeding diseases)

IT 76960-32-2 98849-88-8 122024-47-9 149298-34-0 160597-73-9
 183788-42-3 183788-43-4 183788-44-5 183788-45-6 186252-86-8
 192805-56-4 193153-62-7 194413-91-7 603132-11-2 798544-75-9
 798544-76-0 820962-04-7 866566-88-3 869960-39-4
 869960-40-7 869960-41-8 869960-42-9

RL: PRP (Properties)
 (unclaimed sequence; chimeric proteins comprising IgG and
 biol. active mols. for treating viral infection, hemostatic disorder,
 hemophilia, anemia or bleeding diseases)

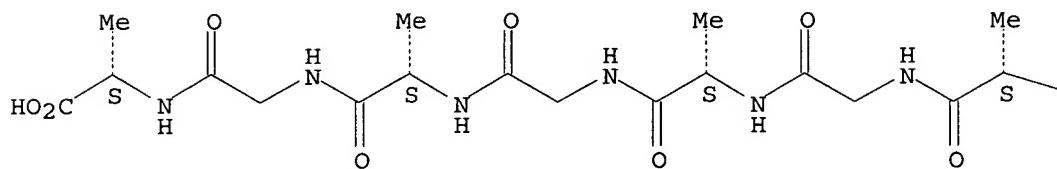
IT 820962-04-7
 RL: PRP (Properties)
 (unclaimed sequence; chimeric proteins comprising IgG and
 biol. active mols. for treating viral infection, hemostatic disorder,
 hemophilia, anemia or bleeding diseases)

RN 820962-04-7 CAPLUS

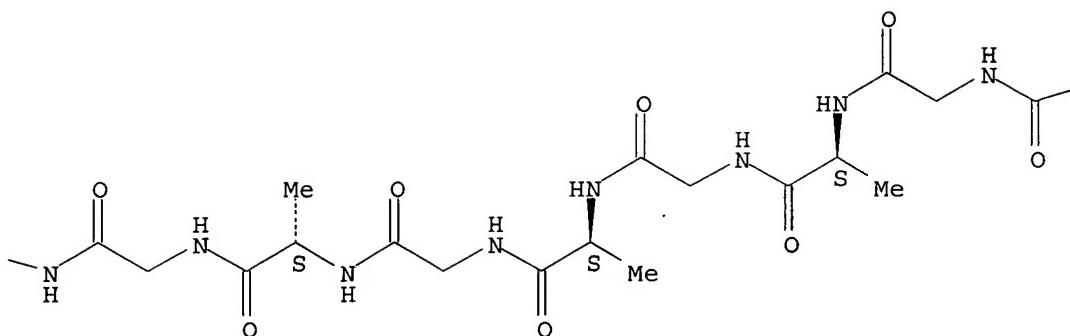
CN L-Alanine, glycyl-L-alanylglycyl-L-alanylglycyl-L-alanylglycyl-L-
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 alanylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

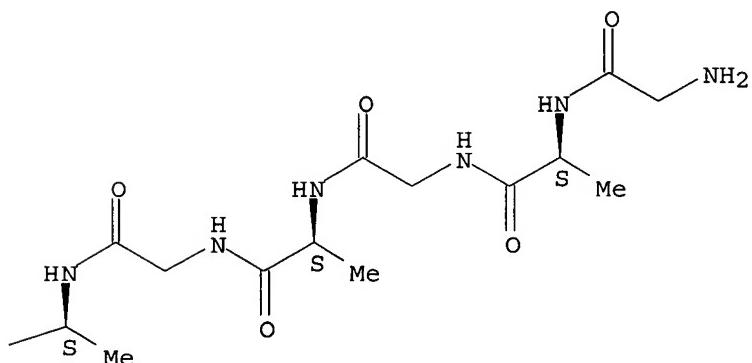
PAGE 1-A



PAGE 1-B



PAGE 1-C



L19 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:547418 CAPLUS
 DOCUMENT NUMBER: 143:72773
 TITLE: Identification and characterization of a novel alpha-amylase from maize endosperm
 INVENTOR(S): James, Martha G.; Myers, Alan M.; Colleoni, Christophe; Stokes, Kevin D.
 PATENT ASSIGNEE(S): Iowa State University Research Foundation, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 40 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005138688	A1	20050623	US 2004-952551 US 2003-505995P	20040927 P 20030925
PRIORITY APPLN. INFO.:				
ED	Entered STN: 24 Jun 2005			
AB	SHE, a Starch Hydrolytic Enzyme active in maize endosperm (<i>Zea mays</i>), and the cDNA sequence encoding SHE are disclosed. The specificity of native, purified SHE is similar, in general terms, to previously known alpha-amylases. However, the activity of SHE toward amylopectin results in hydrolysis products that are distinctly different from those of other alpha-amylases. SHE, and its homologous equivalent in other plants such as rice, Arabidopsis, apple and potato, can be used in starch processing for generating different, e.g., larger sized, alpha-limit dextrans for industrial use, as compared to those generated by previously known alpha-amylases or other starch hydrolytic enzymes. In addition, modification of the expression of this enzyme in transgenic maize plants or in other transgenic organisms (including bacteria, yeast, and other plant species) can be useful for the generation of novel starch forms or altered starch metabolism			
IC	ICM A01H001-00 ICS C12N015-82; C12Q001-68; C07H021-04; C12N009-32; C12N005-04			
INCL	800284000; 435204000; 435419000; 435468000; 435006000; 536023200			
CC	3-2 (Biochemical Genetics) Section cross-reference(s): 7, 11			
IT	Proteins RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (recombinant, starch hydrolytic enzyme AMY3 fusion protein; identification and characterization of a novel alpha-amylase from maize endosperm)			
IT	855551-71-2 855551-72-3 RL: PRP (Properties) (unclaimed protein sequence; identification and characterization of a novel alpha-amylase from maize endosperm)			
IT	855551-72-3 RL: PRP (Properties) (unclaimed protein sequence; identification and characterization of a novel alpha-amylase from maize endosperm)			
RN	855551-72-3 CAPLUS			
CN	16: PN: US20050138688 SEQID: 16 unclaimed protein (9CI) (CA INDEX NAME)			

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L19 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:451502 CAPLUS
 DOCUMENT NUMBER: 142:477125
 TITLE: Methods for the production of apolipoproteins in transgenic plants
 INVENTOR(S): Moloney, Maurice M.; Reid, Alexandra
 PATENT ASSIGNEE(S): Sembiosys Genetics Inc., Can.
 SOURCE: PCT Int. Appl., 530 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005047455	A2	20050526	WO 2004-CA1960	20041115
WO 2005047455	A3	20050721		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2005172359	A1	20050804	US 2004-987454	20041115
PRIORITY APPLN. INFO.:			US 2003-519606P	P 20031114
			US 2004-579733P	P 20040616

ED Entered STN: 27 May 2005

AB Methods for the production of an apolipoprotein in plants are described. In one embodiment, the present invention provides a method for the expression of apolipoprotein in plants comprising : (a) providing a chimeric nucleic acid construct comprising in the 5' to 3' direction of transcription as operably linked components: (i) a nucleic acid sequence capable of controlling expression in plant cells; and (ii) a nucleic acid sequence encoding an apolipoprotein polypeptide; (b) introducing the chimeric nucleic acid construct into a plant cell; and growing the plant cell into a mature plant capable of setting seed wherein the seed expresses apolipoprotein.

IC ICM C12N

CC 3-2 (Biochemical Genetics)

Section cross-reference(s): 6, 11, 13, 16

ST apolipoprotein chimeric gene vector recombinant prepn transgenic plant

IT Plasmid vectors

(binary, expressing chimeric apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Proteins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(caleosin, fusion protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Promoter (genetic element)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(constitutive, regulating chimeric apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Plant cell

Seed

(expressing chimeric apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Synthetic gene

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(for chimeric apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Thioredoxins

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(fusion protein with apolipoprotein; methods for production of apolipoproteins in transgenic plants)

IT Proteins

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(green fluorescent, soluble form, **fusion protein with apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Organelle

(oil body, protein of, **fusion protein with apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Proteins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(oleosins, **fusion protein with apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Codon usage

(optimized, for **chimeric apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Promoter (genetic element)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(regulating **chimeric apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Promoter (genetic element)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(seed-preferred, regulating **chimeric apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Proteins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(steroleosin, **fusion protein with apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT Embryophyta

(transgenic, expressing **chimeric apolipoprotein**; methods for production of apolipoproteins in transgenic plants)

IT	852089-31-7	852089-33-9	852089-35-1	852089-36-2	852089-37-3
	852089-38-4	852089-39-5	852089-40-8	852089-41-9	852089-42-0
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	852090-02-9	852090-03-0	852090-04-1	852090-05-2	852090-06-3
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	852090-22-3	852090-23-4	852090-28-9	852090-34-7	852090-37-0
	852090-39-2	852090-41-6	852090-43-8	852090-51-8	852090-55-2
	852090-58-5	852090-60-9	852090-62-1	852090-64-3	852090-66-5
	852090-69-8	852090-73-4	852090-76-7	852090-78-9	852090-80-3
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	852091-04-4	852091-06-6	852091-08-8	852091-10-2	852091-12-4
	852091-14-6	852091-19-1	852091-20-4	852091-21-5	852091-22-6

852091-23-7 852091-24-8

RL: PRP (Properties)

(unclaimed protein sequence; methods for the production of apolipoproteins in transgenic plants)

IT 852089-91-9

RL: PRP (Properties)

(unclaimed protein sequence; methods for the production of apolipoproteins in transgenic plants)

RN 852089-91-9 CAPLUS

CN 78: PN: WO2005047455 SEQID: 76 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L19 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:355040 CAPLUS

DOCUMENT NUMBER: 140:351718

TITLE: Human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses

INVENTOR(S): Williams, Lewis T.; Chu, Keting; Lee, Ernestine; Hestir, Kevin; Beaurang, Pierre Alvaro; Behrens, Dirk; Halenbeck, Robert Forgan; Huang, Min Mei; Kothakota, Srinivas; Haishan, Lin; Linnemann, Thomas; Pierce, Kristen; Wang, Yan; Wong, Justin G. P.; Wu, Ge; Zhang, Hongbing

PATENT ASSIGNEE(S): Five Prime Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 428 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004035732	A2	20040429	WO 2003-US26780	20030828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2002-406576P	P 20020829
			US 2002-406579P	P 20020829
			US 2002-406585P	P 20020829
			US 2002-406588P	P 20020829
			US 2002-406608P	P 20020829
			US 2002-406611P	P 20020829
			US 2002-406612P	P 20020829
			US 2002-406616P	P 20020829
			US 2002-406640P	P 20020829
			US 2002-406642P	P 20020829
			US 2002-406646P	P 20020829
			US 2002-406653P	P 20020829
			US 2002-406655P	P 20020829
			US 2002-406666P	P 20020829
			US 2002-410946P	P 20020917

US	2002-410947P	P	20020917
US	2002-410953P	P	20020917
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US	2002-410959P	P	20020917
US	2002-410960P	P	20020917
US	2002-410961P	P	20020917
US	2002-410962P	P	20020917
US	2002-411019P	P	20020917
US	2002-411022P	P	20020917
US	2002-411023P	P	20020917
US	2002-411024P	P	20020917
US	2002-411032P	P	20020917
US	2002-411035P	P	20020917
US	2002-411037P	P	20020917
US	2002-411041P	P	20020917
US	2002-411045P	P	20020917
US	2002-411046P	P	20020917
US	2002-411048P	P	20020917
US	2002-411055P	P	20020917
US	2002-411073P	P	20020917
US	2002-411082P	P	20020917

ED Entered STN: 30 Apr 2004

AB The invention provides 1231 novel cDNAs isolated from human tissues, and their encoded polypeptides, related nucleic acid and polypeptide compns., and related modulators, such as antibodies and small mol. modulators. The invention also provides methods to make and use these polynucleotides, polypeptides, related compns., and modulators. These methods include diagnostic, prophylactic, and therapeutic applications. The compns. and methods of the invention are useful in treating proliferative disorders, e.g., cancers, and inflammatory, immune, bacterial, and viral disorders.

IC ICM C12N

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13, 63

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (chimeric; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

IT	681889-36-1P	681889-37-2P	681889-38-3P	681889-39-4P	681889-40-7P
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681891-65-6P				

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

IT	681891-66-7P	681891-67-8P	681891-68-9P	681891-69-0P	681891-70-3P
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	681892-90-0P	681892-91-1P	681892-92-2P	681892-93-3P	681892-94-4P
	681892-95-5P	681892-96-6P	681892-97-7P	681892-98-8P	
	681892-99-9P	681893-00-5P	681893-01-6P		

Agnes Rooke 10/015,956

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

IT 681890-83-5P 681892-52-4P 681892-99-9P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; human nucleic acids and their encoded proteins and their diagnostic and therapeutic uses)

RN 681890-83-5 CAPLUS

CN Protein (human clone WO2004035732-SEQID-3466 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 681892-52-4 CAPLUS

CN Protein (human clone WO2004035732-SEQID-3646 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 681892-99-9 CAPLUS

CN Protein (human clone WO2004035732-SEQID-3695 fragment) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L19 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:523985 CAPLUS

DOCUMENT NUMBER: 135:118783

TITLE: Cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of a chimeric gene encoding the kinases

INVENTOR(S): Allen, Stephen M.; Lee, Jian-ming

PATENT ASSIGNEE(S): E. I. Du Pont De Nemours & Co., USA

SOURCE: U.S., 42 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6262345	B1	20010717	US 1999-347801	19990702
US 2002120949	A1	20020829	US 2001-854731	20010514
US 6794561	B2	20040921		

PRIORITY APPLN. INFO.: US 1998-92438P P 19980710
US 1999-347801 A3 19990702

ED Entered STN: 19 Jul 2001

AB This invention relates to an isolated nucleic acid fragment encoding a protein kinase. The invention also relates to the construction of a chimeric gene encoding all or a portion of the protein kinase, in sense or antisense orientation, wherein expression of the chimeric gene results in production of altered levels of the protein kinase in a transformed host cell. Cloning and heterologous expression of calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 from corn, rice, soybean and wheat

is disclosed. Amino acid and encoding cDNA sequences of the plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 are provided.

IC ICM A01H009-00
ICS C12N009-12; C12N001-20; C07H021-04

INCL 800295000
CC 7-5 (Enzymes)
Section cross-reference(s): 3, 11

ST plant phosphorylase glycogen synthase kinase cDNA sequence; chimeric gene calcium phosphorylase kinase plant; gene chimeric glycogen synthase kinase 3 plant

IT Dicotyledon (Magnoliopsida)
Escherichia coli
Monocotyledon (Liliopsida)
Plant (Embryophyta)
Seed
(chimeric gene expression in; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)

IT Gene, plant
RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation); PROC (Process)
(chimeric; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)

IT Corn
Molecular cloning
Protein sequences
Rice (Oryza sativa)
Soybean (Glycine max)
Wheat
cDNA sequences
(cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)

IT Transgene
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)

IT Chimeric gene
RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation); PROC (Process)
(plant; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)

IT 9059-09-0P, Glycogen synthase kinase
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(3; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)

IT 350630-29-4P 350630-30-7P 350630-31-8P 350630-32-9P 350630-33-0P
350630-34-1P 350630-35-2P 350630-36-3P
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(amino acid sequence; cloning and sequencing of plant calcium-dependent

phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)
IT 350630-20-5P
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)
IT 350630-21-6 350630-22-7 350630-23-8 350630-24-9 350630-25-0
350630-26-1 350630-27-2 350630-28-3
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of chimeric gene encoding kinases)
IT 151596-21-3 151596-23-5 156560-28-0 176025-10-8
227014-75-7 253852-95-8
RL: PRP (Properties)
(unclaimed protein sequence; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of a chimeric gene encoding the kinases)
IT 176025-10-8
RL: PRP (Properties)
(unclaimed protein sequence; cloning and sequencing of plant calcium-dependent phosphorylase kinase and glycogen synthase kinase-3 and construction of a chimeric gene encoding the kinases)
RN 176025-10-8 CAPLUS
CN Kinase (phosphorylating), protein (calcium-calmodulin-dependent) (corn clone pMCK1) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

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Agnes Rooke 10/015, 956

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L21 25163 SEA FILE=REGISTRY ABB=ON PLU=ON (AG){1-8}EG/SQSP

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FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

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L22 4854 SEA FILE=CAPLUS ABB=ON PLU=ON L21
L23 434 SEA FILE=CAPLUS ABB=ON PLU=ON L22 AND L18
L24 114 SEA FILE=CAPLUS ABB=ON PLU=ON L23 AND PY<2001
L25 29144 SEA FILE=CAPLUS ABB=ON PLU=ON MICROARRAY?/OBI
L26 2 SEA FILE=CAPLUS ABB=ON PLU=ON L24 AND L25

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 L27 246792 SEA FILE=CAPLUS ABB=ON PLU=ON PROTEIN SEQUENCE#/OBI
 L28 101 SEA FILE=CAPLUS ABB=ON PLU=ON L24 AND L27
 L33 86 SEA FILE=CAPLUS ABB=ON PLU=ON L28 AND P/DT

↳ Printed 1st 20 units.

=> d .ca hitstr l26 1-2; d .ca 133 1-20...

L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:431457 CAPLUS
 DOCUMENT NUMBER: 142:462276
 TITLE: Tumor-associated target polypeptides for diagnosis and treatment
 INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sakanaka, Chie; Chuntharapai, Anan; Reed, Chae Janeka Genentech, Inc., USA
 PATENT ASSIGNEE(S): SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S. Ser. No. 177,488.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 140
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107595	A1	20050519	US 2004-938061	20040910
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <-
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
CA 2481685	AA	20010308	CA 2000-2481685	20000824
CA 2481691	AA	20010308	CA 2000-2481691	20000824
CA 2481731	AA	20010308	CA 2000-2481731	20000824
CA 2481756	AA	20010308	CA 2000-2481756	20000824
CA 2481788	AA	20010308	CA 2000-2481788	20000824
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003207803	A1	20031106	US 2001-143026	20011019
US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213
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AU 772759	B2	20040506	AU 2002-14767	20020201
AU 772723	B2	20040506	AU 2002-14769	20020201

3 claim 1
seq 1 & 6

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AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
WO 2002101069	A3	20030904		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1402260	A2	20040331	EP 2002-731246	20020403
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JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003148438	A1	20030807	US 2002-145821	20020514
US 2003170788	A1	20030911	US 2002-145634	20020514
US 2003166084	A1	20030904	US 2002-146793	20020515
US 2003134380	A1	20030717	US 2002-147509	20020516
US 2004214269	A1	20041028	US 2002-147518	20020516
US 2003180875	A1	20030925	US 2002-147505	20020517
US 2003199027	A1	20031023	US 2002-152396	20020520
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US 2003068695	A1	20030410	US 2002-192012	20020709
US 2003068696	A1	20030410	US 2002-192014	20020709
US 2003049743	A1	20030313	US 2002-194394	20020711
US 2003049745	A1	20030313	US 2002-194485	20020711
US 2003064446	A1	20030403	US 2002-194460	20020711
US 2003153037	A1	20030814	US 2002-194457	20020711
US 2003059879	A1	20030327	US 2002-194456	20020712
US 2003064448	A1	20030403	US 2002-194484	20020712
US 2003049747	A1	20030313	US 2002-195899	20020715
US 2003064449	A1	20030403	US 2002-195884	20020715
US 2003063112	A1	20030403	US 2002-195896	20020715
US 2003068705	A1	20030410	US 2002-195886	20020715
US 2003068706	A1	20030410	US 2002-195891	20020715
US 2003071834	A1	20030417	US 2002-195898	20020715
US 2003049749	A1	20030313	US 2002-196750	20020716
US 2003065159	A1	20030403	US 2002-196757	20020716
US 2003068710	A1	20030410	US 2002-196761	20020716
US 2003104547	A1	20030605	US 2002-197701	20020717
US 2003104548	A1	20030605	US 2002-197706	20020717
US 2003207398	A1	20031106	US 2002-198759	20020718
US 2003215910	A1	20031120	US 2002-199463	20020718
US 2003180881	A1	20030925	US 2002-202475	20020723
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US 2003068765	A1	20030410	US 2002-207916	20020729
US 2003068766	A1	20030410	US 2002-207917	20020729
US 2003068769	A1	20030410	US 2002-207920	20020729

Agnes Rooke 10/015, 956

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US 2003068774	A1	20030410	US 2002-208026	20020729
US 2003073184	A1	20030417	US 2002-207923	20020729
US 2003073185	A1	20030417	US 2002-207924	20020729
US 2003215912	A1	20031120	US 2002-207915	20020729
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US 2003120056	A1	20030626	US 2002-289498	20021105
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US 2004249141	A1	20041209	US 2002-289490	20021105
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US 2005019823	A1	20050127	US 2004-931886	20040831
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US 2005164266	A1	20050728	US 2005-36582	20050113
US 2005170396	A1	20050804	US 2005-36869	20050114
US 2005202475	A1	20050915	US 2005-38328	20050118
US 2005176046	A1	20050811	US 2005-46650	20050128
US 2005170458	A1	20050804	US 2005-50154	20050202
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PRIORITY APPLN. INFO.:

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US 1998-85339P	A1	19980513
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US 1998-88326P	P	19980604
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US 1998-88655P	P	19980609
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AU 1998-93881	A3	19980914
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CA	1999-2344465	A3	19991005
EP	1999-960644	A3	19991202
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US	2000-441400	A	20000222
WO	2000-US6471	W	20000309
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WO	2001-US26626	W	20010823
US	2001-339227P	P	20011019
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US	2001-2796	A	20011115
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US	2002-345444P	P	20020102
US	2002-52586	A1	20020115
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WO	2002-US10513	W	20020403
US	2002-123155	A1	20020415
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US	2002-127966	B1	20020423
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US	2002-197703	B1	20020717
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US	2002-199666	A1	20020718
US	2002-199464	B1	20020719
US	2002-211858	A1	20020802
US	2002-404809P	P	20020819
US	2002-241220	A1	20020911
US	2004-797366	A1	20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-44

ICS C07K016-18

INCL 530387300; 530388100

CC 15-2 (Immunochemistry)

Section cross-reference(s) : 1, 8, 14

IT Antibodies and Immunoglobulins
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (chimeric; to tumor-associated target polypeptides)

IT DNA microarray technology
 (gene expression for tumor-associated target polypeptides in tumor tissue)

IT 851741-85-0, Antigen TAT161 (human clone DNA77507) 851741-86-1, Antigen TAT101 (human clone DNA80894) 851741-87-2, Antigen TAT157 (human clone DNA82343) 851741-88-3, Antigen TAT160 (human clone DNA87994) 851741-89-4, Antigen TAT158 (human clone DNA88131) 851741-90-7, Antigen TAT110 (human clone DNA95930) 851741-91-8, Antigen TAT210 (human clone DNA95930-1) 851741-92-9, Antigen TAT159 (human clone DNA96917) 851741-93-0, Antigen TAT112 (human clone DNA96930) 851741-94-1, Antigen TAT147 (human clone DNA96936) 851741-95-2, Antigen TAT145 (human clone DNA98565) 851741-96-3, Antigen TAT152 (human clone DNA246435) 851741-97-4, Antigen TAT162 (human clone DNA98591) 851741-98-5, Antigen TAT114 (human clone DNA108809) 851741-99-6, Antigen TAT119 (human clone DNA119488) 851742-00-2, Antigen TAT103 (human clone DNA1143493) 851742-01-3, Antigen TAT130 (human clone DNA167234) 851742-02-4, Antigen TAT166 (human clone DNA235621) 851742-03-5, Antigen TAT132 (human clone DNA236463) 851742-05-7, Antigen TAT129 (human clone DNA1) 851742-06-8, Antigen TAT111 (human clone DNA188221) 851742-07-9, Antigen TAT146 (human clone DNA233876) 851742-08-0, Antigen TAT148 (human clone DNA193891) 851742-09-1, Antigen TAT187 (human clone DNA248170) 851742-10-4, Antigen TAT118 (human clone DNA194628) 851742-11-5, Antigen TAT167 (human clone DNA246415) 851742-12-6, Antigen TAT123 (human clone DNA210499) 851742-13-7, Antigen TAT211 (human clone DNA219894) 851742-14-8, Antigen TAT113 (human clone DNA215609) 851742-15-9, Antigen TAT128 (human clone DNA220432) 851742-16-0, Antigen TAT164 (human clone DNA226094) 851742-17-1, Antigen TAT122 (human clone DNA226165) 851742-18-2, Antigen TAT117 (human clone DNA226237) 851742-19-3, Antigen TAT168 (human clone DNA246450) 851742-20-6, Antigen TAT144 (human clone DNA226456) 851742-21-7 851742-22-8, Antigen TAT126 (human clone DNA226539) 851742-23-9, Antigen TAT151 (human clone DNA236511) 851742-24-0, Antigen TAT115 (human clone DNA226771) 851742-25-1, Antigen TAT163 (human clone DNA227087) 851742-26-2, Antigen TAT227 (human clone DNA266307) 851742-27-3, Antigen TAT228 (human clone DNA266311) 851742-28-4, Antigen TAT229 (human clone DNA266312) 851742-29-5, Antigen TAT230 (human clone DNA266313) 851742-30-8, Antigen TAT121 (human clone DNA227224) 851742-31-9, Antigen TAT183 (human clone DNA247486) 851742-32-0, Antigen TAT165 (human clone DNA227578) 851742-33-1, Antigen TAT131 (human clone DNA227800) 851742-34-2, Antigen TAT140 (human clone DNA227904) 851742-35-3, Antigen TAT127 (human clone DNA228199) 851742-36-4, Antigen TAT116 (human clone DNA228201) 851742-37-5, Antigen TAT189 (human clone DNA247488) 851742-38-6, Antigen TAT190 (human clone DNA236538) 851742-39-7, Antigen TAT191 (human clone DNA247489) 851742-40-0, Antigen TAT133 (human clone DNA228211) 851742-41-1, Antigen TAT186 (human clone DNA233937) 851742-42-2, Antigen TAT120 (human clone DNA228993) 851742-43-3, Antigen TAT124 (human clone DNA228994) 851742-44-4, Antigen TAT105 (human clone DNA229410) 851742-45-5, Antigen TAT107 (human clone DNA229411) 851742-46-6, Antigen TAT108 (human clone DNA229413) 851742-47-7, Antigen TAT139 (human clone DNA229700) 851742-48-8 851742-49-9 851742-50-2, Antigen TAT125 (human clone DNA232754) 851742-51-3, Antigen TAT149 (human clone DNA234833)

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

IT 851742-20-6, Antigen TAT144 (human clone DNA226456)
851742-21-7

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

RN 851742-20-6 CAPLUS

CN Antigen TAT144 (human clone DNA226456) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 851742-21-7 CAPLUS

CN Neutral amino acid transport protein (human clone DNA237637 subunit) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:429313 CAPLUS

DOCUMENT NUMBER: 142:462273

TITLE: Tumor-associated target polypeptides for diagnosis and treatment

INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sliwkowski, Mark

PATENT ASSIGNEE(S): Genentech, Inc., USA

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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
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US	2004-797366	A1	20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-30

ICS G01N033-574; C07H021-04

INCL 435007230; 536023200; 530350000; 530388800

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(chimeric; to tumor-associated target polypeptides)

IT DNA microarray technology

(gene expression for tumor-associated target polypeptides in tumor tissue)

IT 851740-35-7, Antigen TAT161 (human clone DNA77507) 851740-36-8, Antigen TAT101 (human clone DNA80894) 851740-37-9, Antigen TAT157 (human clone DNA82343) 851740-38-0, Antigen TAT160 (human clone DNA87994) 851740-39-1, Antigen TAT158 (human clone DNA88131) 851740-40-4, Antigen TAT110 (human clone DNA95930) 851740-41-5, Antigen TAT210 (human clone DNA95930-1) 851740-42-6, Antigen TAT159 (human clone DNA96917) 851740-43-7, Antigen TAT112 (human clone DNA96930) 851740-44-8, Antigen TAT147 (human clone DNA96936) 851740-45-9, Antigen TAT145 (human clone DNA98565) 851740-46-0, Antigen TAT152 (human clone DNA246435) 851740-47-1, Antigen TAT162 (human clone DNA98591) 851740-48-2, Antigen TAT114 (human clone DNA108809) 851740-49-3, Antigen TAT119 (human clone DNA119488) 851740-50-6, Antigen TAT103 (human clone DNA1143493) 851740-51-7, Antigen TAT130 (human clone DNA167234) 851740-52-8, Antigen TAT166 (human clone DNA235621) 851740-53-9, Antigen TAT132 (human clone DNA176766) 851740-54-0, Antigen TAT150 (human clone DNA236463) 851740-55-1, Antigen TAT129 (human clone DNA1) 851740-56-2, Antigen TAT111 (human clone DNA188221) 851740-57-3, Antigen TAT146 (human clone DNA233876) 851740-58-4, Antigen TAT148 (human clone DNA193891) 851740-59-5, Antigen TAT187 (human clone DNA248170) 851740-60-8, Antigen TAT118 (human clone DNA194628) 851740-61-9, Antigen TAT167 (human clone DNA246415) 851740-62-0, Antigen TAT123 (human clone DNA210499) 851740-63-1, Antigen TAT211 (human clone DNA219894) 851740-64-2, Antigen TAT113 (human clone DNA215609) 851740-65-3, Antigen TAT128 (human clone DNA220432) 851740-66-4, Antigen TAT164 (human clone DNA226094) 851740-67-5, Antigen TAT122 (human clone DNA226165) 851740-68-6, Antigen TAT117 (human clone DNA226237) 851740-69-7, Antigen TAT168 (human clone DNA246450) 851740-70-0, Antigen TAT144 (human clone DNA226456) 851740-71-1 851740-72-2, Antigen TAT126 (human clone DNA226539) 851740-73-3, Antigen TAT151 (human clone DNA236511) 851740-74-4, Antigen TAT115 (human clone DNA226771) 851740-75-5, Antigen TAT163

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

IT 851740-70-0, Antigen TAT144 (human clone DNA226456)

851740-71-1

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

RN 851740-70-0 CAPLUS

CN Antigen TAT144 (human clone DNA226456) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 851740-71-1 CAPLUS

CN Neutral amino acid transport protein (human clone DNA237637 subunit) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L33 ANSWER 1 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:431457 CAPLUS

DOCUMENT NUMBER: 142:462276

TITLE: Tumor-associated target polypeptides for diagnosis and treatment

INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin;

PATENT ASSIGNEE(S) : Sakanaka, Chie; Chuntharapai, Anan; Reed, Chae Janeka
 Genentech, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S.
 Ser. No. 177,488.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 140
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107595	A1	20050519	US 2004-938061	20040910
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <-
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US 2004-797366	A1	20040309

ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-44
ICS C07K016-18

INCL 530387300; 530388100

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(chimeric; to tumor-associated target polypeptides)

IT Protein sequences

CDNA sequences

(for human tumor-associated target polypeptides)

IT 851741-85-0, Antigen TAT161 (human clone DNA77507) 851741-86-1, Antigen TAT101 (human clone DNA80894) 851741-87-2, Antigen TAT157 (human clone DNA82343) 851741-88-3, Antigen TAT160 (human clone DNA87994) 851741-89-4, Antigen TAT158 (human clone DNA88131) 851741-90-7, Antigen TAT110 (human clone DNA95930) 851741-91-8, Antigen TAT210 (human clone DNA95930-1) 851741-92-9, Antigen TAT159 (human clone DNA96917) 851741-93-0, Antigen TAT112 (human clone DNA96930) 851741-94-1, Antigen

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

L33 ANSWER 2 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:429313 CAPLUS

DOCUMENT NUMBER: 142:462273

TITLE: Tumor-associated target polypeptides for diagnosis and

treatment
 INVENTOR(S) : Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen;
 Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sliwkowski, Mark
 PATENT ASSIGNEE(S) : Genentech, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 337 pp., Cont.-in-part of U.S.
 Ser. No. 177,488.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 140
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005106644	A1	20050519	US 2004-936626	20040908
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ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-30

 ICS G01N033-574; C07H021-04

INCL 435007230; 536023200; 530350000; 530388800

CC 15-2 (Immunochemistry)

 Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins

 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

 (chimeric; to tumor-associated target polypeptides)

IT Protein sequences

 cDNA sequences

 (for human tumor-associated target polypeptides)

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RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic
use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study);
BIOL (Biological study); USES (Uses)

(amino acid sequence; antibodies and immunotoxins to tumor-associated
target polypeptides for diagnosis and treatment)

L33 ANSWER 3 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:162569 CAPLUS
 DOCUMENT NUMBER: 140:212061
 TITLE: Protein and cDNA sequences for human tumor associated antigenic target proteins, and related compositions and methods for the diagnosis and treatment of tumor
 INVENTOR(S): Desauvage, Frederic J.; Frantz, Gretchen; Hillan, Kenneth J.; Polakis, Paul; Polson, Andrew; Smith, Victoria; Spencer, Susan D.; Wu, Thomas D.; Zhang, Zemin
 PATENT ASSIGNEE(S): Genentech, Inc., USA
 SOURCE: PCT Int. Appl., 319 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 140
 PATENT INFORMATION:

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US 2005042216	A1	20050224	US 2004-953264	20040929
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US 2005238650	A1	20051027	US 2004-989826	20041116
US 2005153348	A1	20050714	US 2004-20604	20041221
US 2005226869	A1	20051013	US 2004-20508	20041221
US 2005176041	A1	20050811	US 2004-26279	20041230
US 2005214819	A1	20050929	US 2005-30464	20050105
US 2005164266	A1	20050728	US 2005-36582	20050113
US 2005170396	A1	20050804	US 2005-36869	20050114
US 2005202475	A1	20050915	US 2005-38328	20050118
US 2005176046	A1	20050811	US 2005-46650	20050128
US 2005170458	A1	20050804	US 2005-50154	20050202
US 2005176104	A1	20050811	US 2005-52503	20050204
US 2005136515	A1	20050623	US 2005-56802	20050211
US 2005136475	A1	20050623	US 2005-60652	20050216
US 2005158830	A1	20050721	US 2005-80062	20050314
US 2005214846	A1	20050929	US 2005-117757	20050427
PRIORITY APPLN. INFO.:				
		US 2002-404809P	P	20020819
		US 2002-405645P	P	20020821
		US 2002-413192P	P	20020923
		US 2002-419008P	P	20021015
		US 2002-426847P	P	20021115
		US 2003-484959P	P	20030702
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US 1997-63870P	P 19971031
US 1998-82704P	P 19980422
US 1998-83742P	P 19980430
US 1998-84366P	P 19980505
US 1998-85339P	A1 19980513
US 1998-87106P	P 19980528
US 1998-88326P	P 19980604
US 1998-88217P	P 19980605
US 1998-88655P	P 19980609
US 1998-89947P	P 19980619
US 1998-90676P	P 19980625
US 1998-91982P	P 19980707
US 1998-94651P	A1 19980730
US 1998-97022P	P 19980818
US 1998-97974P	P 19980826
AU 1998-93881	A3 19980914
AU 1998-93178	A3 19981002
US 1998-105169P	P 19981022
US 1998-63561P	P 19981028
US 1998-216021	B1 19981216
US 1998-218517	B1 19981222
US 1999-254311	A1 19990303
US 1999-131293P	P 19990427
US 1999-149395P	P 19990817
US 1999-380139	A1 19990825
US 1999-151689P	P 19990831
US 1999-920594	A 19990908
US 1999-921090	A 19990915
CA 1999-2344465	A3 19991005
EP 1999-960644	A3 19991202
US 1999-99309	A 19991220
US 2000-441400	A 20000222
WO 2000-US6471	W 20000309
US 2000-198121P	P 20000418
US 2000-198585P	P 20000418
US 2000-199397P	P 20000425
US 2000-199550P	P 20000425
US 2000-201516P	P 20000503
US 2000-204675P	P 20000517
CA 2000-2380355	A3 20000824
US 2000-232887P	P 20000915
US 2000-690189	A3 20001016
US 2001-816920	B1 20010322
WO 2001-US17443	W 20010530
US 2001-880457	A 20010612
US 2001-882636	B1 20010614
US 2001-927796	B1 20010809
WO 2001-US26626	W 20010823
US 2001-323268P	P 20010918
US 2001-339227P	P 20011019
US 2001-336827P	P 20011107
US 2001-990711	A1 20011114
US 2001-2796	A 20011115
US 2001-331906P	P 20011120
WO 2001-US48938	W 20011213
US 2002-345444P	P 20020102
US 2002-52586	A1 20020115
US 2002-369724P	P 20020403
WO 2002-US10513	W 20020403
US 2002-123155	A1 20020415

US	2002-373160P	P	20020416
US	2002-125166	B2	20020417
WO	2002-US12206	A	20020417
US	2002-127825	A1	20020422
US	2002-127966	B1	20020423
US	2002-141703	A1	20020508
US	2002-378885P	P	20020508
US	2002-145627	A1	20020514
US	2002-145751	A	20020514
US	2002-146793	A1	20020515
US	2002-197703	B1	20020717
US	2002-197708	A1	20020717
US	2002-199666	A1	20020718
US	2002-199464	B1	20020719
US	2002-211858	A1	20020802
US	2002-241220	A1	20020911
WO	2002-US28859	A	20020911
US	2003-411010	A1	20030410
WO	2003-US11148	A	20030410
US	2003-643795	A1	20030819
WO	2003-US25892	W	20030819
US	2003-712892	A2	20031112
WO	2003-US36298	A	20031113
US	2004-797366	A1	20040309
US	2004-983340	A2	20041105

ED Entered STN: 29 Feb 2004

AB The present invention is directed to compns. of matter useful for the diagnosis and treatment of tumor in mammals and to methods of using those compns. of matter for the same. Specifically disclosed are cDNA sequences (total 81) and corresponding encoded tumor associated antigenic target (TAT) proteins (total 77) identified in human.

IC ICM A61K

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13, 63

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (chimeric, to TAT gene product; protein and cDNA sequences
 for human tumor associated antigenic target proteins, and related compns.
 and methods for diagnosis and treatment of tumor)

IT Protein sequences

(of human TAT (tumor associated antigenic target); protein and cDNA
 sequences for human tumor associated antigenic target proteins, and
 related compns. and methods for diagnosis and treatment of tumor)

IT	663970-84-1P	663970-85-2P	663970-86-3P	663970-87-4P	663970-88-5P
	663970-89-6P	663970-90-9P	663970-91-0P	663970-92-1P	663970-93-2P
	663970-94-3P	663970-95-4P	663970-96-5P	663970-97-6P	663970-98-7P
	663970-99-8P	663971-00-4P	663971-01-5P	663971-02-6P	663971-03-7P
	663971-04-8P	663971-05-9P	663971-06-0P	663971-07-1P	663971-08-2P
	663971-09-3P	663971-10-6P	663971-11-7P	663971-12-8P	663971-13-9P
	663971-14-0P	663971-15-1P	663971-16-2P	663971-17-3P	663971-18-4P
	663971-19-5P	663971-20-8P	663971-21-9P	663971-22-0P	663971-23-1P
	663971-24-2P	663971-25-3P	663971-26-4P	663971-27-5P	663971-28-6P
	663971-29-7P	663971-30-0P	663971-31-1P	663971-32-2P	663971-33-3P
	663971-34-4P	663971-35-5P	663971-36-6P	663971-37-7P	663971-38-8P
	663971-39-9P	663971-40-2P	663971-41-3P	663971-42-4P	663971-43-5P
	663971-44-6P	663971-45-7P	663971-46-8P	663971-47-9P	
	663971-48-0P	663971-49-1P	663971-50-4P	663971-51-5P	
	663971-52-6P	663971-53-7P	663971-54-8P	663971-55-9P	663971-56-0P
	663971-57-1P	663971-58-2P			

Agnes Rooke 10/015, 956

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; protein and cDNA sequences for human tumor
associated antigenic target proteins, and related compns. and methods for
diagnosis and treatment of tumor)

L33 ANSWER 4 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:836393 CAPLUS

DOCUMENT NUMBER: 139:336932

TITLE: Human tumor necrosis factor- $\gamma\beta$, receptor

DR3 and TR6, antagonists and antibodies for diagnosis,
prognosis and treatment of inflammatory bowel diseases

INVENTOR(S): Yu, Guo-liang; Ni, Jian; Rosen, Craig A.; Zhang, Jun;
Wei, Ping

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 173 pp., Cont.-in-part of U.S.
Ser. No. 226,294.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198640	A1	20031023	US 2002-310793	20021206
WO 9614328	A1	19960517	WO 1994-US12880	19941107 <--
W: AU, CA, CN, JP, KR, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 2003027284	A1	20030206	US 1998-131237	19980807
US 6599719	B2	20030729		
US 2002090683	A1	20020711	US 1999-246129	19990208
US 6824767	B2	20041130		
US 2002150534	A1	20021017	US 2001-899059	20010706
US 2003129189	A1	20030710	US 2002-226294	20020823
PRIORITY APPLN. INFO.:			WO 1994-US12880	A2 19941107
			US 1995-461246	B2 19950605
			US 1998-5020	B2 19980109
			US 1998-74047P	P 19980209
			US 1998-131237	A2 19980807
			US 1999-246129	A2 19990208
			US 1999-131963P	P 19990430
			US 1999-132227P	P 19990503
			US 1999-134067P	P 19990513
			US 2000-180908P	P 20000208
			US 2000-559290	B2 20000427
			US 2000-216879P	P 20000707
			US 2001-278449P	P 20010326
			US 2001-899059	A2 20010706
			US 2001-314381P	P 20010824
			US 2001-336695P	P 20011207
			US 2002-226294	A2 20020823
			WO 2000-US11689	A2 20000428

ED Entered STN: 24 Oct 2003

AB The present invention encompasses methods for detection, diagnosis,
prevention, treatment, and/or amelioration of inflammatory bowel diseases
and disorders using TNF- $\gamma\beta$ and its receptors DR3 and TR6. In
particular the invention encompasses methods of using TNF- $\gamma\beta$,
DR3 and TR6 polypeptides, as well as antibodies, and antagonists thereto,

in the diagnosis, prognosis and treatment of ulcerative colitis and/or Crohn's disease. Methods of screening for antagonists of the TNF- $\gamma\beta$ polypeptide, together with therapeutic uses of such antagonists are also disclosed.

- IC ICM A61K039-395
INCL 424145100
CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 3, 9, 63
IT Receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(4-1BB, ligand; **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(APRIL, **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(APRIL-SV; **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(BAFF, BlySTM-SV; **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CD30 ligand, **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT Glycoproteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CD40-L (antigen CD40 ligand), **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)
IT CD antigens
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(CD70, **chimeric** TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies

for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(EDA; **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(LIGHT; **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Antigens
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(OX-40, ligand; **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Cytokines
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TNFSF7 (tumor necrosis factor superfamily member 7), **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TRAIL (tumor necrosis factor-related apoptosis-inducing ligand), **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TWEAK; **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(VEGI-SV; **chimeric TNF- $\gamma\beta$** ; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Fas ligand
Lymphotoxin
Tumor necrosis factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**chimeric TNF- $\gamma\beta$** ; human tumor necrosis

factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies
for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(endokine α ; **chimeric** TNF- $\gamma\beta$; human tumor
necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of inflammatory bowel
diseases)

IT Gene therapy
Human
Immunotherapy
Molecular cloning
Prognosis
Protein sequences
cDNA sequences
(human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6,
antagonists and antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Fusion proteins (**chimeric** proteins)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6,
antagonists and antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Albumins, biological studies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(serum, **chimeric** TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies
for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Lymphotoxin
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(β , **chimeric** TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies
for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 616525-37-2DP, subfragments and **chimeric** derivs. are claimed
616525-40-7DP, subfragments and **chimeric** derivs. are claimed
616525-41-8DP, **chimeric** derivs. are claimed 616525-43-ODP,
subfragments and **chimeric** derivs. are claimed
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation);
BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
(Properties); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human tumor necrosis factor- $\gamma\beta$,
receptor DR3 and TR6, antagonists and antibodies for diagnosis,
prognosis and treatment of inflammatory bowel diseases)

IT 207621-35-0P, RANKL
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(**chimeric** TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies
for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 616525-36-1DP, subfragments and **chimeric** derivs. are claimed

616525-38-3DP, chimeric derivs. are claimed 616525-39-4DP,
 subfragments and chimeric derivs. are claimed 616525-42-9DP,
 subfragments and chimeric derivs. are claimed 616525-44-1DP,
 chimeric derivs. are claimed
 RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation);
 BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
 (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (nucleotide sequence; human tumor necrosis factor- $\gamma\beta$,
 receptor DR3 and TR6, antagonists and antibodies for diagnosis,
 prognosis and treatment of inflammatory bowel diseases)

IT 616526-20-6 616526-22-8 616526-24-0 616526-26-2 616526-28-4
 616526-30-8 616526-32-0 616526-34-2 616526-36-4
 616526-38-6 616526-40-0 616526-42-2 616526-44-4 616526-46-6
 616526-48-8 616526-50-2 616526-52-4 616526-54-6 616526-56-8
 RL: PRP (Properties)
 (unclaimed protein sequence; human tumor necrosis
 factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and antibodies
 for diagnosis, prognosis and treatment of inflammatory bowel diseases)

L33 ANSWER 5 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:390752 CAPLUS

DOCUMENT NUMBER: 138:396181

TITLE: Immunoreactive nucleic acids and proteins for
 treatment and diagnosis of chlamydial infection

INVENTOR(S): Skeiky, Yasir A. W.; Scholler, John

PATENT ASSIGNEE(S): Corixa Corporation, USA

SOURCE: U.S., 233 pp., Cont.-in-part of U.S. 6,432,916.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6565856	B1	20030520	US 2000-598419	20000620
US 6166177	A	20001226	US 1998-208277	19981208 <-
US 6447779	B1	20020910	US 1999-288594	19990408
US 6555115	B1	20030429	US 1999-410568	19991001
US 6432916	B1	20020813	US 2000-556877	20000419
US 6448234	B1	20020910	US 2000-620412	20000720
CA 2390088	AA	20010607	CA 2000-2390088	20001204
WO 2001040474	A2	20010607	WO 2000-US32919	20001204
WO 2001040474	A3	20020307		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1238084	A2	20020911	EP 2000-980969	20001204
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003515343	T2	20030507	JP 2001-542539	20001204
BR 2000016066	A	20030610	BR 2000-16066	20001204
NZ 518917	A	20040625	NZ 2000-518917	20001204

ZA 2002004359	A	20030901	ZA 2002-4359	20020530
NO 2002002592	A	20020719	NO 2002-2592	20020531
US 2004234536	A1	20041125	US 2004-872155	20040618
PRIORITY APPLN. INFO.:				
			US 1998-208277	A2 19981208
			US 1999-288594	A2 19990408
			US 1999-410568	A2 19991001
			US 1999-426571	A1 19991022
			US 1999-454684	A2 19991203
			US 2000-556877	A2 20000419
			US 2000-598419	A2 20000620
			US 2000-620412	A2 20000720
			WO 2000-US32919	W 20001204
			US 2001-841132	A1 20010423

ED Entered STN: 22 May 2003

AB Compds. and methods for the diagnosis and treatment of Chlamydial infection are disclosed. Chlamydia antigens of the present invention were isolated by expression cloning of genomic DNA libraries of Chlamydia trachomatis LGV II and Chlamydia pneumonia strain TWAR, and were shown to induce PBMC proliferation and interferon- γ production in immunoreactive T cell lines. The compds. provided include polypeptides that contain at least one antigenic portion of a Chlamydia antigen and DNA sequences encoding such polypeptides. In particular, the invention provides the C. trachomatis polymorphic membrane protein PmpD. Pharmaceutical compns. and vaccines comprising such polypeptides or DNA sequences are also provided, together with antibodies directed against such polypeptides. Various Pmp/Ra12 fusion constructs are also provided, where Ra12 comprises residues 192-323 of the Mycobacterium tuberculosis MTB32A serine proteinase. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of Chlamydial infection in patients and in biol. samples.

IC ICM A61K039-118

INCL 424263100; 424282100; 435007320; 435007360; 435243000; 435252100; 530300000; 530387300

CC 1-5 (Pharmacology)

Section cross-reference(s): 3, 10, 15

ST Chlamydia gene protein sequence infection diagnosis therapy; vaccine Chlamydia gene protein; antigen gene Chlamydia infection diagnosis therapy

IT Proteins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(PmpA (polymorphic membrane protein A), fusion proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Proteins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(PmpB (polymorphic membrane protein B), fusion proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Proteins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(PmpC (polymorphic membrane protein C), fusion proteins Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Proteins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(PmpH (polymorphic membrane protein H), fusion proteins

Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Mycobacterium tuberculosis

(fusions of Ra12 fragment of MTB32A serine proteinase of; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(of Chlamydia Pmp proteins with Mycobacterium tuberculosis Ra12; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pmpA, fusions with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pmpB, fusions with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pmpC, fusions with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT Gene, microbial

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pmpH, fusions with Mycobacterium tuberculosis Ra12 gene; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT 37259-58-8DP, Serine proteinase, fusions of Ra12 fragment with Chlamydia Pmp proteins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(MTB32A, of Mycobacterium tuberculosis; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT 274905-98-5P 274906-00-2P 274906-02-4P 528624-95-5P 528624-96-6P

528624-97-7P 528624-98-8P 528624-99-9P 528625-02-7P 528625-03-8P

528625-09-4P 528625-11-8P 528625-13-0P 528625-14-1P 528625-35-6P

528625-59-4P 528625-60-7P 528625-61-8P 528625-62-9P 528625-73-2P

528625-75-4P 528625-78-7P 528625-80-1P 528625-82-3P 528625-84-5P

528625-85-6P 528625-86-7P 528625-93-6P 528625-94-7P

528625-95-8P 528625-96-9P 528625-97-0P 528625-98-1P

528626-07-5P 528626-08-6P 528626-09-7P 528626-10-0P

Agnes Rooke 10/015, 956

528626-11-1P 528626-12-2P 528626-13-3P 528626-14-4P 528626-16-6P
528626-18-8P 528626-43-9P 528626-44-0P 528626-45-1P 528895-99-0P
528896-00-6P 528896-01-7P 528896-02-8P 528896-03-9P 528896-04-0P
528896-05-1P 528896-06-2P 528896-07-3P 528896-08-4P 528896-10-8P
528896-12-0P 528896-14-2P 528896-16-4P 528896-18-6P 528896-20-0P
528896-22-2P 528896-24-4P 528896-26-6P 528896-28-8P 528896-30-2P
528896-32-4P 528896-34-6P

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

IT 528627-08-9

RL: PRP (Properties)

(unclaimed protein sequence; immunoreactive nucleic acids and proteins for treatment and diagnosis of chlamydial infection)

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 6 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:77536 CAPLUS

DOCUMENT NUMBER: 138:132249

TITLE: Skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use

INVENTOR(S): Watson, James D.; Strachan, Lorna; Sleeman, Matthew; Onrust, Rene; Murison, James G.; Kumble, Krishanand D.

PATENT ASSIGNEE(S): Genesis Research and Development Corporation Limited, N. Z.

SOURCE: U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of U.S. Ser. No. 866,050.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003022835	A1	20030130	US 2002-152661	20020520
US 6150502	A	20001121	US 1998-188930	19981109 <-
WO 9955865	A1	19991104	WO 1999-NZ51	19990429 <-
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6573095	B1	20030603	US 1999-312283	19990514
US 2003040471	A1	20030227	US 2001-866050	20010524
PRIORITY APPLN. INFO.:			US 1998-69726	B2 19980429
			US 1998-188930	A2 19981109
			WO 1999-NZ51	W 19990429
			US 1999-312283	A2 19990514
			US 2000-206650P	P 20000524
			US 2000-221232P	P 20000725
			US 2001-866050	A2 20010524

ED Entered STN: 31 Jan 2003

AB Isolated polynucleotides encoding polypeptides expressed in mammalian skin cells are provided, together with expression vectors and host cells comprising such isolated polynucleotides. Thus, cDNA sequences are obtained by high-throughput screening of cDNA expression libraries constructed from dermal papilla cells from rat hair vibrissae, keratinocytes from human neonatal foreskin, human neonatal fibroblasts, mouse embryonic skin, and mouse stem cells (KSCL), transit amplifying (TRAM) cells, and human small airway epithelial cells. Murine and human TR1 polypeptides from such libraries are demonstrated to stimulate keratinocyte growth and mobility, inhibit the growth of epithelial-derived cancer cells, and play a role in angiogenesis and vascularization in tumors. Addnl., human and mouse KS1, which have similarity to CXC chemokines, are also isolated and demonstrated to promote cell growth, induce an oxidative burst in human peripheral blood mononuclear cells and migration in the human monocyte leukemia cell line. Thus, such polynucleotides and polypeptides may be developed as agents for the healing of wounds, angiogenesis, and regulators of epithelial-derived cancers.

IC ICM A61K038-17
 ICS C12P021-02; C12N005-06; C07H021-04; C07K014-435
 INCL 514012000; 530350000; 536023500; 435069100; 435320100; 435325000
 CC 3-3 (Biochemical Genetics)
 Section cross-reference(s): 1, 6, 13
 IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (of skin-associated proteins; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)
 IT Anti-AIDS agents
 Anti-inflammatory agents
 Antitumor agents
 Cell proliferation
 Human
 Inflammation
 Molecular cloning
 Mus
 Neoplasm
 Protein sequences
 Rattus
 Skin
 Wound healing promoters
 cDNA sequences
 (skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

IT	247255-24-9P	247255-36-3P	491885-34-8P	491885-35-9P	491885-36-0P
	491885-37-1P	491885-38-2P	491885-39-3P	491885-40-6P	491885-41-7P
	491885-42-8P	491885-43-9P	491885-44-0P	491885-45-1P	491885-46-2P
	491885-47-3P	491885-48-4P	491885-49-5P	491885-50-8P	491885-51-9P
	491885-52-0P	491885-53-1P	491885-54-2P	491885-55-3P	491885-56-4P
	491885-57-5P	491885-58-6P	491885-59-7P	491885-60-0P	491885-61-1P
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	491885-67-7P	491885-68-8P	491885-69-9P	491885-70-2P	491885-71-3P
	491885-72-4P	491885-73-5P	491885-74-6P	491885-75-7P	491885-76-8P
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	491885-87-1P	491885-88-2P	491885-89-3P	491885-90-6P	491885-91-7P
	491885-92-8P	491885-93-9P	491885-94-0P	491885-95-1P	491885-96-2P
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491890-07-4P	491890-08-5P	491890-09-6P	491890-10-9P	
491890-11-0P	491890-12-1P	491890-13-2P	491890-14-3P	491890-15-4P
491890-16-5P	491890-17-6P	491890-18-7P	491890-19-8P	491890-20-1P
491890-21-2P	491890-22-3P	491890-23-4P	491890-24-5P	491890-25-6P
491890-26-7P	491890-27-8P			

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)

L33 ANSWER 7 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:23361 CAPLUS
 DOCUMENT NUMBER: 138:88641
 TITLE: Mycobacterium vaccae antigens for treating immunologically mediated skin disorders
 INVENTOR(S): Watson, James D.; Tan, Paul L. J.; Prestidge, Ross
 PATENT ASSIGNEE(S): N. Z.
 SOURCE: U.S. Pat. Appl. Publ., 122 pp., Cont.-in-part of U.S. 6,328,978.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003007976	A1	20030109	US 2001-880505	20010613
US 5968524	A	19991019	US 1997-997080	19971223 <-
US 6328978	B1	20011211	US 1999-324542	19990602
IN 188709	A	20021026	IN 2000-CA231	20000419
PRIORITY APPLN. INFO.:			US 1997-997080	A2 19971223

US 1999-324542 A2 19990602
 IN 1998-CA242 A 19980216

ED Entered STN: 10 Jan 2003
 AB Methods for the treatment of skin disorders, including psoriasis, atopic dermatitis, allergic contact dermatitis, alopecia areata, skin cancers, and related disorders, such as psoriatic arthritis are provided, such methods comprising administering a composition having antigenic and/or adjuvant properties. Compns. which may be usefully employed in the inventive methods include inactivated M. vaccae cells, delipidated and deglycolipidated M. vaccae cells, M. vaccae culture filtrate and compds. present in or derived therefrom, together with combinations of such compns.
 IC ICM A61K039-00
 ICS A61K039-38
 INCL 424184100
 CC 15-2 (Immunochemistry)
 Section cross-reference(s) : 63
 IT DNA sequences
 Dermatitis
 Immunostimulants
 Immunotherapy
 Melanoma
 Molecular cloning
 Protein sequences
 Psoriasis
 Skin, disease
 Skin, neoplasm
 Vaccines
 (Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
 IT Fusion proteins (chimeric proteins)
 Gene, microbial
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
 IT 204442-79-5P 482676-55-1P 482676-56-2P 482676-57-3P 482676-58-4P
 482676-59-5P 482676-61-9P 482676-63-1P, Antigen pota (Mycobacterium vaccae) 482676-65-3P, Antigen potd (Mycobacterium vaccae) 482676-67-5P
 482676-72-2P, Antigen GV-27A (Mycobacterium vaccae) 482676-74-4P
 482676-77-7P 482676-78-8P 482676-80-2P 482676-84-6P
 482676-86-8P, Antigen GV-35 (Mycobacterium vaccae) 482676-88-0P
 482676-91-5P 482676-92-6P 482676-95-9P 482676-99-3P 482677-00-9P
 482677-04-3P, Antigen GV-40 (Mycobacterium vaccae) 482677-07-6P, Antigen GVs-9 (Mycobacterium vaccae) 482678-83-1P, Antigen 85A (Mycobacterium vaccae) 482678-84-2P 482678-85-3P, Antigen 85C (Mycobacterium vaccae)
 482678-87-5P, Antigen GVC-7 (Mycobacterium vaccae) 482678-89-7P
 482678-92-2P, Antigen GVC-14 (Mycobacterium vaccae) 482678-93-3P
 482678-94-4P, Antigen GV-27 (Mycobacterium vaccae) 482678-96-6P, Antigen GV-44 (Mycobacterium vaccae) 482678-97-7P 482678-98-8P, Antigen GV-38A (Mycobacterium vaccae) 482679-01-6P 482679-05-0P 482679-06-1P
 482679-07-2P, Antigen GV-22B (Mycobacterium vaccae) 482679-08-3P, Antigen GV-1/83 (Mycobacterium vaccae) 482679-10-7P 482679-11-8P,
 Antigen GV-27 (Mycobacterium vaccae) 482679-12-9P 482679-15-2P,
 Antigen GV-24B (Mycobacterium vaccae) 482679-16-3P, Antigen GV-38B (Mycobacterium vaccae) 482679-17-4P, Antigen GV-41 (Mycobacterium vaccae) 482679-18-5P, Antigen GV-42 (Mycobacterium vaccae)
 482679-19-6P, Antigen GV-45 (Mycobacterium vaccae) 482679-21-0P, Antigen GV-33 (Mycobacterium vaccae)
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; Mycobacterium vaccae antigens for treating
 immunol. mediated skin disorders)

IT 482711-77-3 482711-78-4 482711-79-5 482711-80-8 482711-81-9
 482711-82-0 482711-83-1 482711-84-2 482711-85-3 482711-86-4
 482711-87-5 482711-90-0 482711-91-1 482711-92-2 482711-93-3
 482711-97-7 482712-06-1 482712-08-3 482712-15-2

RL: PRP (Properties)
 (unclaimed protein sequence; mycobacterium vaccae
 antigens for treating immunol. mediated skin disorders)

L33 ANSWER 8 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:965156 CAPLUS
 DOCUMENT NUMBER: 138:34238
 TITLE: Variants of the lactose repressor with increased operator binding affinity and near normal ligand responsiveness
 INVENTOR(S): Matthews, Kathleen S.; Foster, Catherine M.; Swint-Kruse, Liskin
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 736,836.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002193568	A1	20021219	US 2002-197053	20020717
WO 9927108	A1	19990603	WO 1998-US24949	19981120 <-
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1997-66213P	P 19971120
			WO 1998-US24949	W 19981120
			US 1999-172464P	P 19991217
			US 2000-554537	A2 20000512
			US 2000-736836	A2 20001214

ED Entered STN: 20 Dec 2002
 AB The present invention provides lac repressor proteins that recognize the lactose operator with increased affinity and have either normal or improved ligand responsiveness. For example, the lac repressor Gln60Gly variant shows increased binding affinity for lactose operator DNA, while maintaining near-normal response to the gratuitous inducer IPTG. Alternatively, the present invention provides modified repressors which exhibit responsiveness to an alternative ligand, such as arabinose, or have enhanced responsivity to IPTG. For example, Gln60Gly,Leu148Phe binds with wild-type affinity to lactose operator DNA and exhibits enhanced responsivity to IPTG. The present invention also provides for repressors that exhibit both characteristics: increased affinity for lactose operator and enhanced ligand responsivity. Enhanced ligand response enables induction of gene expression to be finely controlled by a researcher. DNA

sequences encoding the altered lac repressor proteins and bacterial and eukaryotic cells containing altered lac repressor proteins are also provided. The dissociation constant of the lacO operator and the Gln60Gly variant of the repressor was 4+10-12M, compared to 1.2+10-11M for the wild-type repressor.

IC ICM C12P021-02
 ICS C12N001-21; C07H021-04; C12N009-99
 INCL 530350000; 435184000; 435320100; 435069200; 435252300; 536023200
 CC 3-4 (Biochemical Genetics)
 Section cross-reference(s): 6
 IT Proteins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (arabinose-binding, fusion products with lac repressor;
 variants of lactose repressor with increased operator binding affinity
 and near normal ligand responsiveness)
 IT Proteins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (carbohydrate-binding, glucose/galactose-binding, fusion
 products with lac repressor; variants of lactose repressor with
 increased operator binding affinity and near normal ligand
 responsiveness)
 IT Transcription factors
 RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); BIOL (Biological study); USES (Uses)
 (lactose repressors, variants, fusion products; variants of
 lactose repressor with increased operator binding affinity and near
 normal ligand responsiveness)
 IT Proteins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (ribose-binding, fusion products with lac repressor; variants
 of lactose repressor with increased operator binding affinity and near
 normal ligand responsiveness)
 IT 478475-39-7 478475-41-1 478475-42-2 478475-43-3
 RL: PRP (Properties)
 (unclaimed protein sequence; variants of the
 lactose repressor with increased operator binding affinity and near
 normal ligand responsiveness)

L33 ANSWER 9 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:814911 CAPLUS
 DOCUMENT NUMBER: 137:320697
 TITLE: Use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass
 INVENTOR(S): Lee, Se-jin; McPherron, Alexandra C.
 PATENT ASSIGNEE(S): The Johns Hopkins University School of Medicine, USA
 SOURCE: U.S. Pat. Appl. Publ., 86 pp., Cont.-in-part of U.S. Ser. No. 626,896.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: .4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2002157126	A1	20021024	US 2001-841730	20010424

US 6891082	B2	20050510		
WO 9906559	A1	19990211	WO 1998-US15598	19980728 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6696260	B1	20040224	US 2000-485046	20000505
US 6656475	B1	20031202	US 2000-626896	20000727
CA 2448835	AA	20021031	CA 2002-2448835	20020424
WO 2002085306	A2	20021031	WO 2002-US13103	20020424
WO 2002085306	A3	20021212		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1395113	A2	20040310	EP 2002-764345	20020424
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BR 2002009191	A	20040420	BR 2002-9191	20020424
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ZA 2003008021	A	20041015	ZA 2003-8021	20031015
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PRIORITY APPLN. INFO.:				
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ED Entered STN: 25 Oct 2002

AB The invention relates generally to growth differentiation factor (GDF) receptors, and more specifically to GDF-8 (myostatin) receptors, to compns. that affect myostatin signal transduction in a cell, and to methods of using such compns. to modulate myostatin signal transduction in a cell. A myostatin signal transduction pathway is exemplified by the Smad pathway, which is initiated upon myostatin specifically interacting with the extracellular domain of an activin type II receptor. The present invention provides a substantially purified prodomain portion of a promyostatin polypeptide, its biol. activities in inhibiting muscle growth and fat accumulation. The invention discloses that a promyostatin prodomain or GDF-11 prodomain can interact with mature myostatin, GDF-11, or both, thereby reducing or inhibiting the ability of the mature GDF to interact specifically with its receptor. Follistatin is another example of an agent that can bind to and inhibit the activity of myostatin and GDF-11. It was not known, prior to the present disclosure, that follistatin reduces or inhibits the ability of myostatin to interact specifically with a myostatin receptor such as activin receptor, Act RIIB. The present invention provides a substantially purified growth differentiation factor (GDF) receptor, including a myostatin receptor, such as an activin receptor, as well as functional peptide portions thereof. In addition, the invention provides a virtual representation of a

GDF receptor or a functional peptide portion thereof. The present invention also provides a method of modulating an effect of myostatin on a cell by contacting the cell with an agent that affects myostatin signal transduction in the cell. In addition, the invention provides a method of ameliorating the severity of a pathol. condition, which is characterized, at least in part, by an abnormal amount, development or metabolic activity of muscle or adipose tissue in a subject, by modulating myostatin signal transduction in a muscle cell or an adipose tissue cell in the subject. The invention also provides a method of modulating the growth of muscle tissue or adipose tissue in a eukaryotic organism by administering an agent that affects myostatin signal transduction to the organism.

- IC ICM A01K067-027
ICS C07K014-705
INCL 800018000
CC 2-10 (Mammalian Hormones)
Section cross-reference(s): 3, 6, 17
IT Egg
(maturing and fertilizing in vitro, to produce **chimeric** animal; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)
IT Protein sequences
(of promystotin from different species; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)
IT In vitro fertilization
(to produce **chimeric** animal; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)
IT Embryo, animal
(transgenic, **chimeric**, transplanting into recipient female; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)
IT Animal
(transgenic, **chimeric**; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)
IT Embryo, animal
(zygote, introducing genetic vector into, to produce **chimeric** animal; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to increase muscle mass)
IT 473495-59-9DP, subfragments are claimed 473496-21-8DP, subfragments are claimed 473496-22-9DP, subfragments are claimed 473496-23-0DP, subfragments are claimed 473496-24-1DP, subfragments are claimed 473496-25-2DP, subfragments are claimed 473496-26-3DP, subfragments are claimed 473496-27-4DP, subfragments are claimed 473496-28-5DP, subfragments are claimed 473496-29-6DP, subfragments are claimed 473496-30-9DP, subfragments are claimed 473496-31-0DP, subfragments are claimed 473496-32-1DP, subfragments are claimed 473496-33-2DP, subfragments are claimed 473496-34-3DP, subfragments are claimed 473496-35-4DP, subfragments are claimed 473496-36-5DP, subfragments are claimed 473496-37-6DP, subfragments are claimed 473496-38-7DP, subfragments are claimed 473496-39-8DP, subfragments are claimed 473496-40-1DP, subfragments are claimed 473496-41-2DP, subfragments are claimed 473496-42-3DP, subfragments are claimed RL: AGR (Agricultural use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); FFD (Food or feed use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; use of truncated activin type II receptor, myostatin prodomain, or follistatin expression in transgenic animal to

increase muscle mass)
IT 473497-59-5
RL: PRP (Properties)
(unclaimed protein sequence; use of truncated
activin type II receptor, myostatin prodomain, or follistatin
expression in transgenic animal to increase muscle mass)

L33 ANSWER 10 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:792149 CAPLUS
DOCUMENT NUMBER: 137:306635
TITLE: Cloning, characterization and use of a human very long
chain acyl-CoA synthase (VLCAS)-like protein
INVENTOR(S): Wood, William I.; Goddard, Audrey; Gurney, Austin;
Yuan, Jean; Baker, Kevin P.; Chen, Jian
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1249491	A2	20021016	EP 2002-12906	19990308
EP 1249491	A3	20030212		
EP 1249491	B1	20050907		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
EP 1241187	A2	20020918	EP 2002-12898	19990308
EP 1241187	A3	20030319		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
EP 1241180	A2	20020918	EP 2002-12900	19990308
EP 1241180	A3	20030319		
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EP 1241183	A2	20020918	EP 2002-12901	19990308
EP 1241183	A3	20030611		
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EP 1241185	A2	20020918	EP 2002-12904	19990308
EP 1241185	A3	20030305		
EP 1241185	B1	20050105		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
EP 1270590	A1	20030102	EP 2002-12903	19990308
EP 1270590	B1	20040908		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
NZ 507435	A	20031219	NZ 1999-507435	19990308
EP 1386931	A1	20040204	EP 2003-6440	19990308
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO, MK, CY, AL			
NZ 525914	A	20040326	NZ 1999-525914	19990308
EP 1490386	A2	20041229	EP 1999-912321	19990308
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
NZ 528699	A	20050225	NZ 1999-528699	19990308
NZ 528704	A	20050225	NZ 1999-528704	19990308

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CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
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CA 2481788	AA	20010308	CA 2000-2481788	20000824
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CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801
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CA 2420193	AA	20020228	CA 2001-2420193	20010823
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US 2003073129	A1	20030417	US 2001-946374	20010904
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US 2003207803	A1	20031106	US 2001-143026	20011019
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US 2003170254	A1	20030911	US 2001-17191	20011024
US 2003199021	A1	20031023	US 2001-13924	20011025
EP 1397383	A2	20040317	EP 2001-990229	20011213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU 772759	B2	20040506	AU 2002-14767	20020201
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AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
WO 2002101069	A2	20021219	WO 2002-US10513	20020403
WO 2002101069	A3	20030904		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
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EP 1402260	A2	20040331	EP 2002-731246	20020403
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US 1999-380139	A1 19990825
US 1999-151689P	P 19990831
US 1999-920594	A 19990908
US 1999-921090	A 19990915
CA 1999-2344465	A3 19991005
EP 1999-960644	A3 19991202
US 1999-99309	A 19991220
WO 2000-US4341	A1 20000218
US 2000-441400	A 20000222
WO 2000-US6471	W 20000309
US 2000-198121P	P 20000418
US 2000-198585P	P 20000418
US 2000-199397P	P 20000425
US 2000-199550P	P 20000425
US 2000-201516P	P 20000503
US 2000-204675P	P 20000517
CA 2000-2380355	A3 20000824
US 2000-232887P	P 20000915
US 2000-690189	A3 20010116
US 2001-816920	B1 20010322
WO 2001-US17443	W 20010530
US 2001-880457	A 20010612
US 2001-882636	B1 20010614
US 2001-927796	B1 20010809
WO 2001-US26626	W 20010823
US 2001-990711	A1 20011114
US 2001-2796	A 20011115
WO 2001-US48938	W 20011213
US 2002-52586	A1 20020115
WO 2002-US10513	W 20020403
US 2002-123155	A1 20020415
US 2002-127825	A1 20020422
US 2002-127966	B1 20020423
US 2002-141703	A1 20020508
US 2002-145627	A1 20020514
US 2002-145751	A 20020514
US 2002-146793	A1 20020515
US 2002-197703	B1 20020717
US 2002-197708	A1 20020717
US 2002-199666	A1 20020718
US 2002-199464	B1 20020719

US 2002-211858 A1 20020802
 US 2004-797366 A1 20040309

ED Entered STN: 18 Oct 2002
 AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. Isolation of cDNA clones encoding human VLCAS gave the full-length DNA sequence for the enzyme. The full-length cDNA sequence of human VLCAS (clone UNQ367) and the amino acid sequence of the encoded polypeptide are disclosed.
 IC ICM C12N009-10
 ICS C07K019-00; C12N015-12; C12N015-62; C07K016-40
 CC 7-5 (Enzymes)
 Section cross-reference(s): 3, 13
 IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses) (VLCAS-containing; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)
 IT Epitopes
 (chimeric protein containing VLCAS and epitope tag sequence; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)
 IT Genetic vectors
 Human
 Molecular cloning
 Protein motifs
 Protein sequences
 cDNA sequences
 (cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)
 IT Antibodies and Immunoglobulins
 RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses) (fragments, chimeric protein containing VLCAS and Ig Fc fragment; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)
 IT 470727-26-5DP, subfragments and homologs are claimed
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; cloning, characterization and use of human very long chain acyl-CoA synthase (VLCAS)-like protein)

L33 ANSWER 11 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:610434 CAPLUS
 DOCUMENT NUMBER: T37.164736
 TITLE: Secreted protein HPEAD48 and use thereof
 INVENTOR(S): Ruben, Steven M.; Rosen, Craig A.; Olsen, Henrik S.
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA
 SOURCE: U.S., 135 pp., Cont.-in-part of Appl. No. PCT/US98/21142.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6433139	B1	20020813	US 1999-288143	19990408
WO 9919339	A1	19990422	WO 1998-US21142	19981008 <--
			W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
US 2004010132	A1	20040115	US 2001-984429	20011030
US 2003078386	A1	20030424	US 2002-150111	20020520
PRIORITY APPLN. INFO.:				
			US 1997-61463P	P 19971009
			US 1997-61527P	P 19971009
			US 1997-61529P	P 19971009
			US 1997-61532P	P 19971009
			US 1997-61536P	P 19971009
			US 1997-71498P	P 19971009
			WO 1998-US21142	A2 19981008
			US 1999-288143	A2 19990408
			US 2000-244591P	P 20001101

ED Entered STN: 15 Aug 2002

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins.

IC ICM C07K001-00

INCL 530350000

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 1, 6, 13, 63

IT Antibodies and Immunoglobulins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fragments, Fc, fusion product with HPEAD48; secreted protein HPEAD48 and use thereof)

IT Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)

(of Ig Fc fragment and HPEAD48; secreted protein HPEAD48 and use thereof)

IT Drug screening

Gene therapy

Human

Molecular cloning

Nucleic acid hybridization

Plasmid vectors

Protein sequences

Viral vectors

(secreted protein HPEAD48 and use thereof)

IT 447476-52-0	447477-17-0	447477-19-2	447477-20-5	447477-21-6
447477-22-7	447477-23-8	447477-24-9	447477-25-0	447477-26-1
447477-27-2	447477-28-3	447477-29-4	447477-30-7	447477-31-8
447477-32-9	447477-33-0	447477-34-1	447477-35-2	447477-36-3
447477-37-4	447477-38-5	447477-39-6	447477-40-9	447477-41-0

Agnes Rooke 10/015,956

447477-42-1	447477-43-2	447477-44-3	447477-45-4	447477-46-5
447477-47-6	447477-48-7	447477-49-8	447477-50-1	447477-51-2
447477-52-3	447477-53-4	447477-54-5	447477-55-6	447477-56-7
447477-57-8	447477-58-9	447477-59-0	447477-60-3	447477-61-4
447477-62-5	447477-63-6	447477-64-7	447477-65-8	447477-66-9
447477-67-0	447477-68-1	447477-69-2	447477-70-5	447477-71-6
447477-72-7	447477-73-8	447477-74-9	447477-75-0	447477-76-1
447477-77-2	447477-78-3	447477-79-4	447477-80-7	447477-81-8
447477-82-9	447477-83-0	447477-84-1	447477-85-2	447477-86-3
447477-87-4	447477-88-5	447477-89-6	447477-90-9	447477-91-0
447477-92-1	447477-93-2	447477-94-3	447477-95-4	447477-96-5
447477-97-6	447477-98-7	447477-99-8	447478-00-4	447478-01-5
447478-02-6	447478-03-7	447478-04-8	447478-05-9	447478-06-0
447478-07-1	447478-08-2	447478-09-3	447478-10-6	447478-11-7

RL: PRP (Properties)

(unclaimed protein sequence; secreted protein
HPEAD48 and use thereof)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 12 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:609966 CAPLUS

DOCUMENT NUMBER: 137:168258

TITLE: Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection

INVENTOR(S): Probst, Peter; Bhatia, Ajay; Skeiky, Yasir A. W.; Fling, Steven P.

PATENT ASSIGNEE(S): Corixa Corporation, USA

SOURCE: U.S., 194 pp., Cont. of U.S. Ser. No. 454,684.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6432916	B1	20020813	US 2000-556877	20000419
US 6166177	A	20001226	US 1998-208277	19981208 <--
US 6447779	B1	20020910	US 1999-288594	19990408
US 6555115	B1	20030429	US 1999-410568	19991001
US 6565856	B1	20030520	US 2000-598419	20000620
US 6448234	B1	20020910	US 2000-620412	20000720
CA 2390088	AA	20010607	CA 2000-2390088	20001204
WO 2001040474	A2	20010607	WO 2000-US32919	20001204
WO 2001040474	A3	20020307		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1238084	A2	20020911	EP 2000-980969	20001204
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003515343	T2	20030507	JP 2001-542539	20001204

BR 2000016066	A	20030610	BR 2000-16066	20001204
NZ 518917	A	20040625	NZ 2000-518917	20001204
ZA 2002004359	A	20030901	ZA 2002-4359	20020530
NO 2002002592	A	20020719	NO 2002-2592	20020531
US 2004234536	A1	20041125	US 2004-872155	20040618
PRIORITY APPLN. INFO.:				
			US 1998-208277	A2 19981208
			US 1999-288594	A2 19990408
			US 1999-410568	A2 19991001
			US 1999-426571	A2 19991022
			US 1999-454684	A2 19991203
			US 2000-556877	A2 20000419
			US 2000-598419	A2 20000620
			US 2000-620412	A2 20000720
			WO 2000-US32919	W 20001204
			US 2001-841132	A1 20010423

ED Entered STN: 15 Aug 2002

AB Compds. and methods for the diagnosis and treatment of Chlamydial infection are disclosed. The compds. provided include polypeptides that contain at least one antigenic portion of a Chlamydia antigen and DNA sequences encoding such polypeptides. Pharmaceutical compns. and vaccines comprising such polypeptides or DNA sequences are also provided, together with antibodies directed against such polypeptides. Diagnostic kits containing such polypeptides or DNA sequences and a suitable detection reagent may be used for the detection of Chlamydial infection in patients and in biol. samples.

IC ICM A61K038-00
ICS A61K039-395; A61K039-00; C07H021-02; C07H021-04; G01N033-53

INCL 514002000

CC 15-2 (Immunochemistry)

Section cross-reference(s): 3, 9

IT Antigen-presenting cell

B cell (lymphocyte)

Blood analysis

Blood plasma

Blood serum

Chlamydia

Chlamydia pneumoniae

Chlamydia trachomatis

DNA sequences

Dendritic cell

Drug delivery systems

Dyes

Fibroblast

Fluorescent substances

Immunostimulants

Immunotherapy

Labels

Luminescent substances

Macrophage

Molecular cloning

Monocyte

Nucleic acid hybridization

PCR (polymerase chain reaction)

Particles

Protein sequences

T cell (lymphocyte)

Urine analysis

Vaccines

(Chlamydia antigens or fragments and oligonucleotide probes and primers for treatment and diagnosis of chlamydial infection)

IT Antigens

Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (Chlamydia antigens or fragments and oligonucleotide probes and primers
 for treatment and diagnosis of chlamydial infection)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (MOMP (major outer membrane protein), chimeric; Chlamydia
 antigens or fragments and oligonucleotide probes and primers for
 treatment and diagnosis of chlamydial infection)

IT 448312-07-0P 448312-08-1P 448312-09-2P 448312-10-5P 448312-11-6P
 448312-12-7P 448312-13-8P 448312-14-9P 448312-15-0P 448312-16-1P
 448313-47-1P 448313-69-7P 448313-70-0P 448313-71-1P 448313-72-2P
 448313-83-5P 448313-85-7P 448313-88-0P 448313-90-4P 448313-92-6P
 448313-94-8P 448313-95-9P 448313-96-0P 448314-03-2P
 448314-04-3P 448314-05-4P 448314-06-5P 448314-07-6P 448314-08-7P
 448314-17-8P 448314-18-9P 448314-19-0P 448314-20-3P
 448314-21-4P 448314-22-5P 448314-23-6P 448314-24-7P 448314-26-9P
 448314-28-1P 448314-53-2P 448314-54-3P 448314-55-4P 448314-56-5P
 448314-57-6P 448314-58-7P 448314-59-8P 448314-60-1P 448314-61-2P
 448314-62-3P 448314-63-4P 448314-64-5P 448314-65-6P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; Chlamydia antigens or fragments and
 oligonucleotide probes and primers for treatment and diagnosis of
 chlamydial infection)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 13 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:461199 CAPLUS

DOCUMENT NUMBER: 137:32059

TITLE: Proteins and genes from Mycobacterium vaccae and
 methods for treatment and diagnosis of mycobacterial
 infections

INVENTOR(S): Tan, Paul; Visser, Elizabeth; Prestidge, Ross; Watson,
 James D.

PATENT ASSIGNEE(S): Genesis Research and Development Corporation Limited,
 N. Z.

SOURCE: U.S., 147 pp., Cont.-in-part of U.S. Ser. No. 95,855.
 CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6406704	B1	20020618	US 1998-205426	19981204
US 6284255	B1	20010904	US 1996-705347	19960829
US 6001361	A	19991214	US 1997-873970	19970612 <--
US 5985287	A	19991116	US 1997-997362	19971223 <--
US 6160093	A	20001212	US 1998-95855	19980611 <--
CA 2315539	AA	19990701	CA 1998-2315539	19981223 <--
WO 9932634	A2	19990701	WO 1998-NZ189	19981223 <--

WO 9932634	A3	19991202		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9918936	A1	19990712	AU 1999-18936	19981223 <--
AU 746311	B2	20020418		
BR 9814432	A	20001010	BR 1998-14432	19981223 <--
EP 1044273	A2	20001018	EP 1998-963665	19981223 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
TR 200001948	T2	20010221	TR 2000-200001948	19981223
JP 2002514385	T2	20020521	JP 2000-525553	19981223
NZ 505834	A	20021220	NZ 1998-505834	19981223
IN 188709	A	20021026	IN 2000-CA231	20000419
NO 2000003261	A	20000822	NO 2000-3261	20000622 <--
PRIORITY APPLN. INFO.:				
			US 1996-705347	A2 19960829
			US 1997-873970	A2 19970612
			US 1997-997362	A2 19971223
			US 1998-95855	A2 19980611
			US 1997-996624	A 19971223
			US 1997-997080	A 19971223
			IN 1998-CA242	A 19980216
			US 1998-156181	A 19980917
			US 1998-205426	A 19981204
			WO 1998-NZ189	W 19981223

ED Entered STN: 20 Jun 2002

AB The present invention provides polypeptides comprising an immunogenic portion of a *Mycobacterium vaccae* protein and DNA mols. encoding such polypeptides, together with methods for their use in the diagnosis and treatment of mycobacterial infection, including *M. tuberculosis* and *M. avium*. The invention is further related to compds. that function as non-specific immune response amplifiers, and the use of such nonspecific immune response amplifiers as adjuvants in vaccination or immunotherapy against infectious disease, and in certain treatments for immune disorders and cancer. Methods for enhancing the immune response to an antigen including administration of *M. vaccae* culture filtrate, delipidated *M. vaccae* cells, or delipidated and deglycolipidated *M. vaccae* cells are also provided.

IC ICM A61K039-04

ICS A61K032-02; G12N001-12

INCL 424248100

CC 15-2 (Immunochemistry)

Section cross-reference(s): 3, 6, 10

IT Antibacterial agents

DNA sequences

Immunostimulants

Mycobacterium avium

Mycobacterium tuberculosis

Mycobacterium vaccae

Protein sequences

Tuberculosis

Tuberculostatics

Vaccines

(proteins and genes from *Mycobacterium vaccae* and methods for treatment

and diagnosis of mycobacterial infections)

IT Fusion proteins (chimeric proteins)

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(proteins and genes from *Mycobacterium vaccae* and methods for treatment and diagnosis of mycobacterial infections)

IT	437129-88-9	437129-90-3	437129-93-6	437129-94-7	437129-96-9
	437129-98-1	437130-00-2	437130-02-4	437130-04-6	437130-06-8
	437130-07-9	437130-09-1	437130-11-5	437130-13-7	437130-14-8
	437130-17-1	437130-19-3	437130-21-7	437130-23-9	437130-25-1
	437130-27-3	437130-29-5	437130-31-9	437130-34-2	437130-35-3
	437130-37-5	437130-39-7	437130-41-1	437130-43-3	437130-46-6
	437130-47-7	437130-49-9	437130-51-3	437130-54-6	437130-56-8
	437130-58-0	437130-60-4	437130-62-6	437130-64-8	437130-66-0
	437130-68-2	437130-70-6	437130-72-8	437130-74-0	437130-76-2
	437130-78-4	437130-85-3	437130-87-5	437130-91-1	437130-92-2
	437130-93-3				

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; proteins and genes from *Mycobacterium vaccae* and methods for treatment and diagnosis of mycobacterial infections)

IT	437134-78-6	437134-79-7	437134-80-0	437134-81-1	437134-82-2
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	437134-83-3	437134-84-4	437134-98-0	437135-09-6	437135-23-4
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RL: PRP (Properties)

(unclaimed protein sequence; proteins and genes from *Mycobacterium vaccae* and methods for treatment and diagnosis of mycobacterial infections)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 14 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:172435 CAPLUS

DOCUMENT NUMBER: 136:211966

TITLE: Cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins

INVENTOR(S): Ruben, Steven M.; Birse, Charles E.; Duan, Roxanne D.; Soppet, Daniel R.; Rosen, Craig A.; Shi, Yanggu; Lafleur, David W.; Olsen, Henrik; Ebner, Reinhard; Florence, Kimberly A.; Ni, Jian; Young, Paul

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 263 pp., Cont.-in-part of Appl. No. PCT/US00/15187.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002028449	A1	20020307	US 2000-726643	20001201
WO 2000075375	A1	20001214	WO 2000-US15187	20000602 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 2002183503 A1 20021205 US 2002-42141 20020111
 US 2005010042 A1 20050113 US 2004-919272 20040817
 PRIORITY APPLN. INFO.: US 1999-137725P P 19990607
 WO 2000-US15187 A2 20000602
 US 2000-726643 A1 20001201
 US 2002-42141 A1 20020111

ED Entered STN: 08 Mar 2002

AB The present invention relates to 26 novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Tissue distribution, sequence homologies, and preferred epitope sites are provided for the secreted proteins, as well as chromosomal mapping of some of the genes. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins in bacterial, insect, and mammalian cells. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins. High-throughput screening assays are also provided for various putative activities of the secreted proteins.

IC ICM C12Q001-68

ICS C07H021-02; C07H021-04; C12P021-02; C12N009-00

INCL 435006000

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13, 63

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (fusion products; cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins)

IT Protein sequences

(of 26 human secreted proteins)

IT 402699-23-4P	402699-24-5P	402699-25-6P	402699-26-7P	402699-27-8P
402699-28-9P	402699-29-0P	402699-30-3P	402699-31-4P	402699-32-5P
402699-33-6P	402699-34-7P	402699-35-8P	402699-36-9P	402699-37-0P
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402699-43-8P	402699-44-9P	402699-45-0P	402699-46-1P	
402699-47-2P	402699-48-3P	402699-49-4P	402699-50-7P	
402699-51-8P	402699-52-9P	402699-53-0P	402699-54-1P	402699-55-2P
402699-56-3P				

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; cloning and cDNA and deduced amino acid sequences of 26 human secreted proteins)

IT 402702-41-4	402702-50-5	402702-51-6	402702-52-7	402702-53-8
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402702-64-1	402702-65-2	402702-66-3	402702-67-4	402702-68-5
402702-69-6	402702-70-9	402702-71-0	402702-72-1	402702-73-2
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402703-33-7 402703-34-8 402703-35-9 402703-36-0 402703-37-1
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402703-43-9 402703-44-0 402703-45-1 402703-46-2 402703-47-3

RL: PRP (Properties)

(unclaimed protein sequence; cloning and cDNA and
deduced amino acid sequences of 26 human secreted proteins)

L33 ANSWER 15 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:90102 CAPLUS

DOCUMENT NUMBER: 136:146183

TITLE: Nucleic acid and protein compositions and methods for
the diagnosis and treatment of disorders involving
angiogenesis

INVENTOR(S): Baker, Kevin P.; Ferrara, Napoleone; Gerber,
Hanspeter; Gerritsen, Mary E.; Goddard, Audrey;
Godowski, Paul J.; Gurney, Austin L.; Hillan, Kenneth
J.; Marsters, Scot A.; Pan, James; Paoni, Nicholas F.;
Stephan, Jean-Philippe F.; Watanabe, Colin K.;
Williams, P. Mickey; Wood, William I.; Ye, Weilan

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 567 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 140

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002008284	A3	20030313		
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US 2002161199	A1	20021031	US 2001-938418	20010823
EP 1311668	A2	20030521	EP 2001-966255	20010823
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ED Entered STN: 01 Feb 2002

AB Nucleic acid and protein compns. and methods are disclosed for stimulating or inhibiting angiogenesis and/or cardiovascularization in mammals, including humans. Thus, 187 cDNAs and their encoded protein sequences isolated from human cDNA libraries are identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. The pharmaceutical compns. are based on polypeptides or antagonists thereto that have been identified for one or more of these uses. Disorders that can be diagnosed, prevented, or treated by the compns. herein include trauma such as wounds, various cancers, and disorders of the vessels including atherosclerosis and cardiac hypertrophy. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention, and to methods for producing the polypeptides of the present invention.

IC C07K014-475

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 9, 13, 63

IT Epitopes

(chimeric proteins containing; nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(fragments, chimeric proteins containing Fc region; nucleic acid and protein compns. and methods for the diagnosis and treatment of disorders involving angiogenesis)

IT Angiogenesis

Angiogenesis inhibitors

Antitumor agents

Cardiovascular agents

Cardiovascular system, disease

Gene therapy

Human

Mammalia

Molecular cloning
Protein sequences

cDNA sequences

(nucleic acid and protein compns. and methods for the diagnosis and
treatment of disorders involving angiogenesis)

IT Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)(nucleic acid and protein compns. and methods for the diagnosis and
treatment of disorders involving angiogenesis)

IT	393196-70-8P	393196-72-0P	393196-74-2P	393196-76-4P	393196-78-6P
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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)(amino acid sequence; nucleic acid and protein compns. and methods for
the diagnosis and treatment of disorders involving angiogenesis)

ACCESSION NUMBER: 2001:895574 CAPLUS
 DOCUMENT NUMBER: 136:52707
 TITLE: Methods for the treatment of immunologically-mediated skin disorders
 INVENTOR(S): Watson, James D.; Tan, Paul L. J.; Prestidge, Ross
 PATENT ASSIGNEE(S): Genesis Research & Development Corp. Ltd., N. Z.
 SOURCE: U.S., 116 pp., Cont.-in-part of U.S. 5,968,524.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6328978	B1	20011211	US 1999-324542	19990602
US 5968524	A	19991019	US 1997-997080	19971223 <--
IN 188709	A	20021026	IN 2000-CA231	20000419
US 2003007976	A1	20030109	US 2001-880505	20010613
PRIORITY APPLN. INFO.:			US 1997-997080	A2 19971223
			IN 1998-CA242	A 19980216
			US 1999-324542	A2 19990602

ED Entered STN: 12 Dec 2001
 AB Methods for the treatment of skin disorders, including psoriasis, atopic dermatitis, allergic contact dermatitis, alopecia areata and skin cancers are provided, such methods comprising administering a composition having antigenic and/or adjuvant properties. Compsns. which may be usefully employed in the inventive methods include inactivated *M. vaccae* cells, delipidated and deglycolipidated *M. vaccae* cells, *M. vaccae* culture filtrate and compds. present in or derived therefrom, together with combinations of such compns.
 IC ICM A61K045-00
 ICS A61K039-04; A61K039-02; A61K039-38; A61K038-00
 INCL 424282100
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 3, 63
 IT DNA sequences
 Dermatitis
 Immunotherapy
 Melanoma
 Molecular cloning
Mycobacterium vaccae
 Protein sequences
 Psoriasis
 Skin, disease
 Skin, neoplasm
 Vaccines
 (inactivated or delipidated and deglycolipidated *Mycobacterium vaccae* or antigens for treatment of immunol.-mediated skin disorders)
 IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (inactivated or delipidated and deglycolipidated *Mycobacterium vaccae* or antigens for treatment of immunol.-mediated skin disorders)
 IT 380693-94-7 380693-95-8 380693-96-9 380693-97-0 380694-01-9
 380694-02-0 380694-03-1 380694-04-2 380694-05-3 380694-17-7
 380694-19-9 380694-26-8 380694-44-0 380694-45-1 380694-48-4
 380694-49-5 380694-52-0
 RL: PRP (Properties)

(unclaimed protein sequence; methods for the treatment of immunol.-mediated skin disorders)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 17 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:693506 CAPLUS
 DOCUMENT NUMBER: 135:268240
 TITLE: Secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues
 INVENTOR(S): Baker, Kevin P.; Chen, Jian; Desnoyers, Luc; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Pan, James; Smith, Victoria; Watanabe, Colin K.; Wood, William I.; Zhang, Zemin
 PATENT ASSIGNEE(S): Genentech, Inc., USA
 SOURCE: PCT Int. Appl., 774 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 140
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001068848	A3	20020829		
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WO 2000053758	A2	20000914	WO 2000-US5841	20000302 <--
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EP 1402260	A2	20040331	EP 2002-731246	20020403
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US 1999-311832	A1 19990514
WO 1999-US10733	W 19990514
US 1999-135750P	P 19990525
WO 1999-US12252	W 19990602
US 1999-138166P	P 19990608

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US 1999-380138	A1	19990825
US 1999-380139	B1	19990825
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US 1999-151689P	P	19990831
US 1999-151736P	P	19990831
US 1999-151791P	P	19990831
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WO 1999-US20594	W	19990908
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US 1999-153904P	P	19990914
US 1999-397342	A1	19990915
US 1999-921090	A	19990915
WO 1999-US21090	A	19990915
CA 1999-2344465	A3	19991005
US 1999-403297	B1	19991018
US 1999-160407P	P	19991019
US 1999-160408P	P	19991019
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US 1999-162506P	P	19991029
US 1999-164495P	P	19991109
US 1999-164499P	P	19991109
US 1999-164500P	P	19991109
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US 1999-166360P	P	19991116
US 1999-166363P	P	19991116
US 1999-166364P	P	19991116
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EP 1999-960644	A3	19991202
WO 1999-US28551	W	19991202
WO 1999-US28565	A1	19991202
US 1999-169495P	P	19991207
US 1999-170262P	P	19991209
WO 1999-US30095	W	19991216
US 1999-99309	A	19991220
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Agnes Rooke 10/015,956

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WO	2000-US7532	W	20000321
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US	2000-199654P	P	20000425
US	2000-201516P	P	20000503
US	2000-204675P	P	20000517
WO	2000-US13705	A2	20000517
WO	2000-US14042	A1	20000522
WO	2000-US15264	W	20000602
US	2000-209832P	P	20000605
US	2000-212901P	P	20000620
US	2000-213807P	P	20000622
US	2000-219556P	P	20000720
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WO	2000-US20710	W	20000728
US	2000-222425P	P	20000801
US	2000-227133P	P	20000822
US	2000-644848	A1	20000822
WO	2000-US23522	W	20000823
CA	2000-2380355	A3	20000824
JP	2001-520864	A3	20000824
US	2000-644610	A1	20000824
WO	2000-US23328	W	20000824
US	2000-229896P	P	20000901
US	2000-230621P	P	20000905
US	2000-232887P	P	20000915
US	2000-664610	A	20000918
US	2000-665350	A	20000918
US	2000-235147P	P	20000922
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US	2000-690189	A3	20001016
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US	2001-747259	B1	20001220
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US	2001-261878P	P	20010112
US	2001-261910P	P	20010116
US	2001-261939P	P	20010116
US	2001-262150P	P	20010116
US	2001-767609	A	20010122
US	2001-267623P	P	20010209
US	2001-796498	A	20010228
WO	2001-US6520	W	20010228
WO	2001-US6666	W	20010301
US	2001-274399P	P	20010309

US 2001-802706	A 20010309
US 2001-808689	A 20010314
US 2001-816744	A 20010322

- ED Entered STN: 21 Sep 2001
 AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 305 cDNAs encoding human secreted or transmembrane proteins were identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. These transcripts for these proteins are overexpressed in various cancerous tissues, including adrenal, lung, colon, breast, prostate, rectal, cervical, and liver tumors. Certain of the proteins stimulate release of tumor necrosis factor- α from human blood, and also stimulate proliferation or differentiation of chondrocytes. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.
 IC ICM C12N015-12
 ICS C12N015-62; C07K014-47; C07K014-705; C07K016-18; G01N033-53;
 C12Q001-68
 CC 3-3 (Biochemical Genetics)
 Section cross-reference(s): 6, 13, 14
 IT Antibodies
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (chimeric; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)
 IT Adrenal gland, neoplasm
 Liver, neoplasm
 Lung, neoplasm
 Molecular cloning
 Neoplasm
 Protein sequences
 Tumor markers
 cDNA sequences
 (secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)
 IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)
 IT 151185-21-6 160575-51-9 185229-04-3 200145-68-2 202669-30-5
 203876-08-8 204868-81-5 205704-98-9, Protein (human Th1 cell-specific)
 208065-42-3, Protein (human gene LU103) 208472-38-2 208668-52-4
 208668-58-0 209209-94-9, Protein (human gene ASP1) 209334-83-8
 209859-57-4 210044-19-2 211749-90-5 212704-82-0 213464-65-4
 213471-70-6, Protein zsig32 (human) 213474-05-6 214684-34-1
 217795-43-2, Protein (human clone HP10230) 217795-45-4, Protein (human clone HP10408) 217795-48-7, Protein (human clone HP10419) 218438-77-8, Protein LS170 (human clone 1355520IH) 218948-50-6 219709-98-5
 220104-93-8, Protein DC3 (human dendritic cells) 220483-73-8
 220710-70-3 220793-26-0, Protein PIGR-1 (human) 221079-13-6
 221216-74-6 221266-03-1 221369-75-1 221369-76-2 221369-81-9
 221455-95-4 221877-69-6 221877-79-8 221877-95-8 221878-41-7
 221879-04-5 221879-28-3 221879-33-0 221890-47-7 221896-58-8
 223415-76-7, Protein PRO358 (human clone DNA47361) 224301-63-7
 224302-02-7 225373-34-2 226934-74-3 226934-79-8 226934-81-2

227792-85-0 230288-46-7 233272-65-6, Glypican 6 (human) 235087-98-6
 235088-04-7 235787-35-6 242794-87-2 242794-89-4 242795-08-0
 242795-28-4 242795-30-8 242795-45-5 **242795-93-3**
242796-09-4 242796-11-8 242796-13-0 243122-08-9
 243122-10-3 243122-49-8 243122-52-3 243122-70-5 243122-74-9
 243123-25-3 243123-45-7 243646-92-6, Protein (human prostate 371-amino acid) 244004-81-7 244028-85-1 249610-95-5 249619-76-9, Peflin (human fetus) 251100-02-4, Interleukin 21 (human) 251926-73-5
 251929-75-6 252049-74-4 252049-82-4 252049-85-7 252049-94-8
 252050-03-6 252050-18-3 252050-28-5 252050-31-0 252050-35-4
 252050-53-6 252050-55-8 252050-58-1 252050-63-8 252050-78-5
 252050-81-0 252050-83-2 252050-85-4 252051-00-6 252051-07-3
 252051-27-7 252051-38-0 252051-43-7 252051-45-9 252051-59-5
 252051-66-4 252052-09-8 252193-66-1 252196-58-0 252196-69-3
 252196-74-0 252196-77-3 252196-79-5 252196-81-9 252196-83-1
 252196-85-3 252196-88-6 252196-92-2 252196-96-6 252196-98-8
 252197-10-7 252197-14-1 252197-23-2 252197-34-5 252197-41-4
 252197-45-8 252197-48-1 252197-51-6 252197-53-8 252197-91-4
 252198-28-0 252198-32-6 252726-25-3, Carbonic anhydrase 14 (human)
 252727-87-0, Protein (human gene DKK-2 precursor) 252727-88-1, Protein (human gene SGY-1 precursor) 253418-65-4 253418-75-6 253418-76-7
 253419-00-0 253419-11-3 253419-20-4 253419-24-8 253419-42-0
 253579-88-3 255888-96-1 259519-97-6 260237-14-7 260342-54-9
 260342-55-0 260342-56-1 260342-58-3 **260342-59-4**
 260342-60-7 260382-23-8 260382-24-9 260382-30-7 260382-31-8
260534-87-0 260534-88-1 260534-90-5 260534-93-8
 260534-95-0 260534-98-3 260534-99-4 260535-00-0 260535-03-3
 260535-06-6 260535-07-7 260535-09-9 260535-10-2 260535-11-3
 260535-12-4 260535-16-8 260535-18-0 260535-19-1 260535-21-5
 260535-22-6 260535-24-8 260535-25-9 260535-28-2 260535-29-3
 260535-30-6 260535-31-7 260535-32-8 260535-33-9 260535-34-0
 260535-35-1 260535-37-3 260535-38-4 260535-39-5 260535-44-2
 260535-45-3 260535-46-4 260535-47-5 260535-48-6 260535-50-0
 260535-54-4 260535-55-5 260535-57-7 260774-48-9 277336-68-2
 294899-53-9 297277-25-9 297774-88-0 297774-92-6 297774-95-9
 297774-96-0 299466-36-7, Protein CGI-31 (human) 300425-62-1
 301252-54-0 303809-45-2 304029-43-4 312333-93-0 312334-32-0,
 Protein PRO3301 (human clone DNA88002) 312334-52-4, Cytokine zsig81
 (human) 313408-13-8 314326-52-8 314326-55-1 317394-09-5
 321202-67-9 326833-73-2 326936-34-9, Protein (human clone
 THYRO1000570) 326944-83-6 329286-29-5 329286-30-8
 RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study,
 unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
 study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (amino acid sequence; secreted and transmembrane polypeptides and human
 nucleic acids encoding them that are overexpressed in cancerous
 tissues)

L33 ANSWER 18 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:630862 CAPLUS
 DOCUMENT NUMBER: 135:207462
 TITLE: Domains of polyketide synthase from Sorangium
 cellulosum
 INVENTOR(S): Gustafsson, Claes; Betlach, Mary C.; Ashley, Gary;
 Julien, Bryan; Ziermann, Rainer
 PATENT ASSIGNEE(S): Kosan Bioscience, USA
 SOURCE: U.S., 72 pp., Cont.-in-part of U.S. 6,090,601.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6280999	B1	20010828	US 1998-144085	19980831
US 6090601	A	20000718	US 1998-10809	19980123 <--
US 2003054547	A1	20030320	US 2001-942025	20010828
PRIORITY APPLN. INFO.:				
			US 1998-10809	A2 19980123
			US 1998-144085	A2 19980831
			US 2001-271245P	P 20010215

ED Entered STN: 30 Aug 2001

AB A 33,529-bp DNA mol. isolated from Sorangium cellulosum SMP44 encodes the multifunctional proteins which direct polyketide synthesis. The DNA contains 2 open reading frames, and various modules and submodules encoding the various enzymic activities are identified. Addnl., chimeric polyketide synthases that include domains, or subsets of domains, patterned on the polyketide synthases are provided. Methods to prepare polyketide combinatorial libraries are described, as are recombinant host cells in which polyketides are produced.

IC ICM C12N001-20

ICS C12N015-00; C12N005-00; C12N009-00; C07H021-04

INCL 435252300

CC 7-5 (Enzymes)

Section cross-reference(s): 3, 10

IT Combinatorial library

DNA sequences

Molecular cloning

Protein sequences

Sorangium cellulosum

(domains of polyketide synthase from Sorangium cellulosum)

IT Enzymes, properties

RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)

(fusion products; domains of polyketide synthase from Sorangium cellulosum)

IT 357361-43-4DP, subfragments are claimed 357361-44-5DP, subfragments are claimed

RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)

(amino acid sequence; domains of polyketide synthase from Sorangium cellulosum)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 19 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:449908 CAPLUS

DOCUMENT NUMBER: 435:60161

TITLE: Fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture

INVENTOR(S): Dunn, John J.; Luft, Benjamin J.

PATENT ASSIGNEE(S): Research Foundation State University of New York, USA; Brookhaven Science Associates

SOURCE: U.S., 267 pp., Cont.-in-part of U.S. Ser. No. 148,191, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6248562	B1	20010619	US 1994-235836	19940429
CA 2175567	AA	19950511	CA 1994-2175567	19941027 <--
WO 9512676	A1	19950511	WO 1994-US12352	19941027 <--
W: AU, CA, FI, JP, NO				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9481274	A1	19950523	AU 1994-81274	19941027 <--
EP 726955	A1	19960821	EP 1995-900453	19941027 <--
EP 726955	B1	20040407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 263836	E	20040415	AT 1995-900453	19941027
PT 726955	T	20040831	PT 1995-900453	19941027
ES 2219657	T3	20041201	ES 1995-900453	19941027
ZA 9408551	A	19950703	ZA 1994-8551	19941031 <--
US 2004033236	A1	20040219	US 2003-369100	20030218
US 2005271682	A1	20051208	US 2005-196475	20050803
PRIORITY APPLN. INFO.:				
			US 1993-148191	B2 19931101
			US 1994-235836	A 19940429
			WO 1994-US12352	W 19941027
			US 2000-226484P	P 20000818
			US 2000-666017	B2 20000919
			WO 2001-US24736	A1 20010807
			US 2003-369100	A3 20030218

ED Entered STN: 21 Jun 2001
 AB Chimeric genes for fusion proteins of at least two antigenic polypeptides from one or more species of *Borrelia* are described for manufacture of the antigens for vaccines against borreliosis. The proteins are also useful as immunodiagnostic reagents. The antigenic peptides may be from the same or different larger proteins and may be from different species. The outer surface protein OspA was purified and antigenic domains mapped with monoclonal antibodies. A immunol. important hypervariable region of OspA was identified. The cloning of genes for a number of outer surface proteins and their use in the construction of chimeric genes is described.
 IC ICM A61K039-02
 INCL 435069300
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 1, 3, 10
 ST *Borrelia* antigen fusion protein vaccine diagnostic; Lyme disease vaccine fusion protein
 IT Vaccines
 (Lyme disease; fusion proteins of antigenic polypeptides of *Borrelia* for diagnostic and therapeutic use and their manufacture)
 IT DNA sequences
 (for outer surface proteins of *Borrelia burgdorferi* and their fusion products; fusion proteins of antigenic polypeptides of *Borrelia* for diagnostic and therapeutic use and their manufacture)
 IT *Borrelia*
 Borrelia burgdorferi
 Lyme disease
 (fusion proteins of antigenic polypeptides of *Borrelia* for diagnostic and therapeutic use and their manufacture)
 IT Chimeric gene
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (fusion proteins of antigenic polypeptides of *Borrelia* for diagnostic and therapeutic use and their manufacture)

- IT Lipoproteins
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospA, purification of, manufacture of fusion products of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Lipoproteins
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospB, purification of, manufacture of fusion products of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Proteins, specific or class
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospC; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Proteins, specific or class
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene ospD; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Protein sequences
(of outer surface proteins of Borrelia burgdorferi and their fusion products; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospA, cloning of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospB, cloning of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospC, cloning of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ospD, cloning of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p12, gene for, cloning of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p39, gene for, cloning of; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)
- IT Proteins, specific or class

RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p41, gene for, cloning of; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p66, gene for, cloning of; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT Proteins, specific or class
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(p93, gene for, cloning of; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT 132989-37-8, Protein (Borrelia burgdorferi plasmid clone pTRH32 gene ospA)
132989-38-9, Protein (Borrelia burgdorferi plasmid clone pTRH32 gene ospB)
138756-62-4, Antigen p 100 (Borrelia burgdorferi strain PKo)
147095-30-5, Lipoprotein (Borrelia burgdorferi strain 25015 gene ospA)
167360-62-5 167360-66-9 167360-68-1 167360-70-5 167360-72-7
167360-74-9 167974-11-0 169592-83-0 345920-36-7 345920-37-8
345920-38-9 345920-48-1
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT 167360-78-3P 167360-80-7P 167360-82-9P 167360-84-1P 167360-86-3P
167360-88-5P 167360-90-9P 167360-92-1P 167360-94-3P 167360-96-5P
167360-98-7P 167361-00-4P 167361-02-6P 345920-43-6P 345920-44-7P
345920-45-8P 345920-46-9P
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT 147258-55-7, Flagellin (Borrelia burgdorferi strain P/Gau)
345920-47-0
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT 147258-57-9, Flagellin (Borrelia burgdorferi strain ATCC 35210 clone pET7HIS.2)
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT 167360-79-4
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; **fusion proteins of antigenic polypeptides of Borrelia** for diagnostic and therapeutic use and their manufacture)

IT 133020-32-3, Deoxyribonucleic acid (Borrelia burgdorferi plasmid clone

pTRH32 gene ospB) 153266-47-8 153266-48-9 153266-50-3 153266-51-4
 167360-60-3 167360-61-4 167360-64-7 167360-65-8 167360-67-0
 167360-69-2 167360-71-6 167360-73-8 167360-75-0 167360-76-1
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(nucleotide sequence; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 147258-56-8P, DNA (Borrelia burgdorferi strain ATCC 35210 clone pET7HIS.2 flagellin gene) 167361-04-8P 345920-39-0P 345920-40-3P
 345920-41-4P 345920-42-5P

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nucleotide sequence; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 133020-31-2, DNA (Borrelia burgdorferi plasmid clone pTRH32 gene ospA)
 142757-03-7, DNA (Borrelia burgdorferi strain P/Gau flagellin gene)
 166944-21-4 166944-22-5 166944-23-6 166944-24-7 166944-25-8
 166944-27-0 166944-29-2 166944-30-5 166944-31-6 166944-32-7
 166944-33-8 166944-34-9 166944-35-0

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 166944-20-3
 RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nucleotide sequence; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 152472-66-7 167360-77-2 167360-81-8 167360-83-0 167360-85-2
 167360-87-4 167360-89-6 167360-91-0 167360-93-2 167360-95-4
 167360-97-6 167360-99-8 167361-01-5 167361-03-7 167361-05-9
 167361-06-0
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nucleotide sequence; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

IT 184250-21-3 345920-56-1 345920-57-2 345920-58-3 345920-59-4
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 RL: PRP (Properties)

(unclaimed nucleotide sequence; fusion proteins of antigenic polypeptides of Borrelia for diagnostic and therapeutic use and their manufacture)

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2001:449905 CAPLUS
 DOCUMENT NUMBER: 135:60160
 TITLE: Immunogenic compositions against Helicobacter infection, polypeptides for use in the compositions and nucleic acid sequences encoding said polypeptides
 INVENTOR(S): Labigne, Agnes; Suerbaum, Sebastien; Ferrero, Richard L.; Thibierge, Jean Michel
 PATENT ASSIGNEE(S): Institut Pasteur, Fr.
 SOURCE: U.S., 93 pp., Cont.-in-part of WO9426901.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6248330	B1	20010619	US 1995-432697	19950502
WO 9514093	A1	19950526	WO 1993-EP3259	19931119 <-
W: JP				
WO 9426901	A1	19941124	WO 1994-EP1625	19940519 <-
W: AU, CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5843460	A	19981201	US 1995-467822	19950606 <-
US 6258359	B1	20010710	US 1995-466248	19950606
WO 9634624	A1	19961107	WO 1996-EP1834	19960502 <-
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,				
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LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,				
SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
AU 9656934	A1	19961121	AU 1996-56934	19960502 <-
PRIORITY APPLN. INFO.:			EP 1993-401309	A 19930519
			WO 1993-EP3259	W 19931119
			WO 1994-EP1625	A2 19940519
			US 1995-432697	A2 19950502
			US 1995-447177	A1 19950519
			WO 1996-EP1834	W 19960502

ED Entered STN: 21 Jun 2001
 AB There is provided an immunogenic composition capable of inducing protective antibodies against Helicobacter infection characterized in that it comprises: i) at least one sub-unit of a urease structural polypeptide from Helicobacter pylori, or a fragment thereof, said fragment being recognized by antibodies reacting with Helicobacter felis urease, and/or at least one sub-unit of a urease structural polypeptide from Helicobacter felis, or a fragment thereof, said fragment being recognized by antibodies reacting with Helicobacter pylori urease; ii) and/or, a heat shock protein (Hsp), or chaperonin, from Helicobacter, or a fragment of said protein. The preparation, by recombinant means, of such immunogenic compns. is also provided.
 IC A61K039-00
 INCL 424192100
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 3, 9, 10
 IT Proteins, specific or class
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (MBP (maltose-binding protein), chimeric; immunogenic compns.

comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT Affinity chromatography
Anion exchange chromatography
DNA sequences
Drug delivery systems
Helicobacter
Helicobacter felis
Helicobacter pylori
Mammal (Mammalia)
Molecular cloning
Protein sequences
(immunogenic compns. comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT Antigens
Fusion proteins (chimeric proteins)
Heat-shock proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(immunogenic compns. comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT 151187-40-5, Urease (Helicobacter felis strain ATCC 49179 gene ureB β-6 subunit reduced) 162243-37-0 162243-38-1 162243-40-5, Urease (Helicobacter felis gene ureA) 345920-03-8 345920-06-1
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; immunogenic compns. comprising Helicobacter heat shock protein or chaperonin for vaccine against Helicobacter infection)

IT 115681-99-7, Protein (Escherichia coli gene groES) 117537-95-8
127314-53-8, Urease (Proteus mirabilis clone pMID1003 γ-subunit protein moiety reduced) 142193-37-1, Protein (Helicobacter pylori clone pILL753 gene ureI reduced) 146635-40-7, Chaperonin 10 (Clostridium perfringens clone pCPH-2 gene groES) 162243-42-7, Urease (Helicobacter felis gene ureI) 244773-35-1 345920-26-5 345920-27-6
345920-28-7 345920-29-8 345920-30-1 345920-31-2
345920-32-3 345920-33-4 345920-34-5 345920-35-6
RL: PRP (Properties)
(unclaimed protein sequence; immunogenic compns.
against Helicobacter infection, polypeptides for use in the compns. and nucleic acid sequences encoding said polypeptides)

REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Claim 57

Agnes Rooke 10/015,956

=> d his ful

FILE 'REGISTRY' ENTERED AT 12:33:12 ON 19 DEC 2005

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SAVE L2 AGNESCL57B/A
L3 8 SEA ABB=ON PLU=ON L1 AND SQL<50.
L4 478 SEA ABB=ON PLU=ON L2 AND SQL<50

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FILE 'CAPLUS' ENTERED AT 12:35:54 ON 19 DEC 2005

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L8 54 SEA ABB=ON PLU=ON L7 AND L5
L9 10 SEA ABB=ON PLU=ON L8 AND PY<2001
D SCAN TI
L10 68727 SEA ABB=ON PLU=ON ARRAY#/OBI OR MICROARRAY?/OBI
L11 100 SEA ABB=ON PLU=ON L5 AND L10
L12 0 SEA ABB=ON PLU=ON L11 AND PY<2001
L13 5108 SEA ABB=ON PLU=ON L2
L14 515 SEA ABB=ON PLU=ON L13 AND L7
L15 143 SEA ABB=ON PLU=ON L14 AND PY<2001
L16 125 SEA ABB=ON PLU=ON L15 AND P/D/T
L17 4411 SEA ABB=ON PLU=ON POLYANION?/OBI OR POLYCATION?/OBI
L18 0 SEA ABB=ON PLU=ON L5 AND L17
L19 8 SEA ABB=ON PLU=ON L13 AND L17
D SCAN
L20 1 SEA ABB=ON PLU=ON L19 AND PY<2001

=> fil reg
FILE 'REGISTRY' ENTERED AT 12:47:21 ON 19 DEC 2005
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STRUCTURE FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2
DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d his l1-14

L1 1622 S (AG){1-8}PDG/SQSP → *8Q1€7*
L2 29037 S (AG){1-8}DG/SQSP → *8Q1€8*
SAV L1 AGNESCL57A/A
SAVE L2 AGNESCL57B/A
L3 8 S L1 AND SQL<50
L4 478 S L2 AND SQL<50

=> fil caplus

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FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

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They are available for your review at:

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que 19
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L5 746 SEA FILE=CAPLUS ABB=ON PLU=ON L1
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L8 54 SEA FILE=CAPLUS ABB=ON PLU=ON L7 AND L5
L9 10 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND PY<2001

SEQ 1 7

=> d que 116
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L14 515 SEA FILE=CAPLUS ABB=ON PLU=ON L13 AND L7
L15 143 SEA FILE=CAPLUS ABB=ON PLU=ON L14 AND PY<2001
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L17 4411 SEA FILE=CAPLUS ABB=ON PLU=ON POLYANION?/OBI OR POLYCATION?/O
BI
L19 8 SEA FILE=CAPLUS ABB=ON PLU=ON L13 AND L17
L20 1 SEA FILE=CAPLUS ABB=ON PLU=ON L19 AND PY<2001

SEQ 1 8

=> d .ca 19 1-10;d .ca 116 1-20;d .ca 120

L9 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:772766 CAPLUS
DOCUMENT NUMBER: 133:330556
TITLE: Genome sequence and polypeptides of Pyrococcus abyssi
and their uses
INVENTOR(S): Forterre, Patrick; Thierry, Jean-Claude; Prieur,
Daniel; Dietrich, Jacques; Lecompte, Odile; Querellou,
Joel; Weissenbach, Jean; Saurin, William; Heilig,
Roland; Flament, Didier; Raffin, Jean-Paul; Henneke,
Ghislaine; Gueguen, Yannick; Rolland, Jean-Luc
PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique (CNRS),
Fr.; Institut Francais de Recherche pour
l'Exploitation de la Mer - IFREMER
SOURCE: PCT Int. Appl., 1403 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000065062	A2	20001102	WO 2000-FR1065	20000421 <--
WO 2000065062	A3	20020214		
WO 2000065062	C2	20020906		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2792651	A1	20001027	FR 1999-5034	19990421 <--
FR 2792651	B1	20050318		
CA 2371253	AA	20001102	CA 2000-2371253	20000421 <--
EP 1196583	A2	20020417	EP 2000-922717	20000421
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2004500802	T2	20040115	JP 2000-614397	20000421
PRIORITY APPLN. INFO.: FR 1999-5034 A 19990421 WO 2000-FR1065 W 20000421				

ED Entered STN: 03 Nov 2000

AB The invention relates to the genome sequence of *Pyrococcus abyssi* strain Orsay, the 807 open reading frame nucleotide sequences coding for polypeptides of *P. abyssi* such as polypeptides involved in metabolism or in the replication process, in addition to vectors including said sequences and cells transformed by said vectors. Replication factor C (large and small forms resulting from intein splicing), PCNA (proliferating cell nuclear antigen), DNA polymerase II large and small subunits, replication factor A, and DNA polymerase I were isolated and characterized by recombinant cloning in *Escherichia coli*. The invention also relates to methods using said nucleic acids or polypeptides, especially biosynthesis methods or biodegrdn. methods for mols. of interest and to kits comprising said polypeptides.

IC ICM C12N015-31

ICS C12N015-54; C12N015-55; C12N015-57; C12N015-60; C12N015-61;
C12N015-62; C07K014-195; C07K019-00; C12N009-10; C12N009-12;
C12N009-14; C12N009-16; C12N009-48; C12N009-88; C12N009-90;
C12P001-00; C12P019-34; C12Q001-68; C12N001-21

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 10

IT Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(genome sequence and polypeptides of *Pyrococcus abyssi* and their uses)

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Agnes Rooke 10/015, 956

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RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(amino acid sequence; genome sequence and polypeptides of Pyrococcus abyssi and their uses)

L9 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:819406 CAPLUS
DOCUMENT NUMBER: 132:60991
TITLE: Mitogen and stress-activated protein kinase-1 and MSK2 and their regulation and encoding polynucleotides
INVENTOR(S): Alessi, Dario; Deak, Maria; Cohen, Philip; Caivano, Matilde
PATENT ASSIGNEE(S): Medical Research Council, UK
SOURCE: PCT Int. Appl., 167 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----

WO 9967283	A2	19991229	WO 1999-GB1660	19990608 <--
WO 9967283	A3	20010412		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9942730	A1	20000110	AU 1999-42730	19990608 <--
EP 1109918	A2	20010627	EP 1999-957169	19990608
R:	DE, DK, FR, GB, IT, NL, SE			
JP 2002518036	T2	20020625	JP 2000-555934	19990608
PRIORITY APPLN. INFO.:			GB 1998-13467	A 19980624
			GB 1998-17303	A 19980810
			WO 1999-GB1660	W 19990608

ED Entered STN: 30 Dec 1999
 AB Substantially pure two-kinase-domain protein kinases are provided and designated mitogen and stress-activated protein kinases-1 and -2 (MSK1 and MSK2). Their cDNA and deduced amino acid sequences are provided. MSK1 and MSK2 are activated in vitro and vivo by either the MAPK/ERK or SAPK2/p38 cascade systems, and appear to mediate the activation of transcription factors CREB and ATF1 by growth factors and stress signals. MSK1 is localized in the nucleus of cells and phosphorylates CREB at serine-133; a synthetic peptide corresponding to the sequence surrounding serine-133 is phosphorylated with a remarkably low Km value (<0.1 μM). The effects of SB203580 and PD98059 on the EGF, UV, and TNF-induced activation of CREB and ATF1 mirror the effects of these inhibitors on MSK1 activation. MSK1 and MSK2 may regulate the transcription of the genes for proinflammatory mediators cyclooxygenase-2 (COX2) and interleukin-1 and the induction of the proinflammatory COX2 protein. Variants, fusions, fragments, or derivs. thereof useful in screening assays for drugs are also provided, as are applications of the kinases in the modulation of CREB and COX2 activities..
 IC ICM C07K014-00
 CC 7-2 (Enzymes)
 Section cross-reference(s): 3, 63
 IT Fusion proteins (chimeric proteins)
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (mitogen and stress-activated protein kinase-1 and MSK2 and their regulation and encoding polynucleotides)
 IT 219130-64-0 252974-31-5 252974-33-7 252974-34-8
 RL: PRP (Properties)
 (unclaimed protein sequence; mitogen and stress-activated protein kinase-1 and MSK2 and their regulation and encoding polynucleotides)

L9 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1999:613933 CAPLUS
 DOCUMENT NUMBER: 131:224482
 TITLE: Cloning and cDNA and deduced amino acid sequences of 95 human secreted proteins
 INVENTOR(S): Ruben, Steven M.; Ni, Jian; Rosen, Craig A.; Yu, Guo-Liang; Young, Paul E.; Feng, Ping; Soppet, Daniel R.; Wei, Ying-Fei; Endress, Gregory A.; Duan, Roxanne D.; Kyaw, Hla; Ebner, Reinhard; Lafleur, David W.; Olsen, Henrik S.; Shi, Yanggu; Moore, Paul A.
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: PCT Int. Appl., 485 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9947540	A1	19990923	WO 1999-US5804	19990318 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9934517	A1	19991011	AU 1999-34517	19990317 <--
CA 2323761	AA	19990923	CA 1999-2323761	19990318 <--
EP 1064297	A1	20010103	EP 1999-916140	19990318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002506627	T2	20020305	JP 2000-536733	19990318
US 2003065139	A1	20030403	US 1999-397945	19990917
US 2004048304	A1	20040311	US 2003-653595	20030903
PRIORITY APPLN. INFO.:			US 1998-78563P	P 19980319
			US 1998-78566P	P 19980319
			US 1998-78573P	P 19980319
			US 1998-78574P	P 19980319
			US 1998-78576P	P 19980319
			US 1998-78577P	P 19980319
			US 1998-78578P	P 19980319
			US 1998-78579P	P 19980319
			US 1998-78581P	P 19980319
			US 1998-80312P	P 19980401
			US 1998-80313P	P 19980401
			US 1998-80314P	P 19980401
			WO 1999-US5804	W 19990318
			US 1999-397945	A1 19990917

ED Entered STN: 26 Sep 1999

AB The present invention relates to 95 novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Tissue distribution, sequence homologies, and preferred epitope sites are provided for the secreted proteins, as well as chromosomal mapping of some of the genes. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins in bacterial, insect, and mammalian cells. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins. High-throughput screening assays are also provided for various putative activities of the secreted proteins.

IC ICM C07H021-04

ICS C07K001-00; C07K016-00; C12N015-00; C12N001-20; C12P021-06;
A61K038-00; C12Q001-68; G01N033-53; G01N033-566

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13, 63

IT Immunoglobulins

RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(fusion products; cloning and cDNA and deduced amino acid sequences of 95 human secreted proteins)

IT	243851-06-1	243851-07-2	243851-08-3	243851-09-4	243851-10-7
	243851-11-8	243851-12-9	243851-14-1	243851-15-2	243851-16-3
	243851-17-4	243851-18-5	243851-19-6	243851-20-9	243851-21-0
	243851-22-1	243851-23-2	243851-24-3	243851-25-4	243851-26-5
	243851-27-6	243851-29-8	243851-30-1	243851-31-2	243851-32-3
	243851-33-4	243851-34-5	243851-35-6	243851-36-7	243851-38-9
	243851-39-0	243851-40-3	243851-41-4	243851-42-5	243851-43-6
	243851-44-7	243851-45-8	243851-46-9	243851-48-1	243851-49-2
	243851-50-5	243851-51-6	243851-52-7	243851-53-8	243851-54-9
	243851-55-0	243851-57-2	243851-58-3	243851-59-4	243851-60-7
	243851-61-8	243851-62-9	243851-63-0	243851-64-1	243851-65-2
	243851-67-4	243851-68-5	243851-69-6	243851-70-9	243851-71-0
	243851-72-1	243851-73-2	243851-74-3	243851-75-4	243851-77-6
	243851-78-7	243851-79-8	243851-80-1	243851-81-2	
	243851-82-3	243851-83-4	243851-84-5	243851-85-6	243851-86-7
	243851-88-9	243851-89-0	243851-90-3	243851-91-4	243851-92-5
	243851-93-6	243851-94-7	243851-96-9	243851-97-0	

RL: PRP (Properties)

(unclaimed sequence; cloning and cDNA and deduced amino acid sequences of 95 human secreted proteins)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:549385 CAPLUS

DOCUMENT NUMBER: 131:166527

TITLE: Insecticidal toxins and their genes from *Photobacterium luminescens*

INVENTOR(S): Kramer, Vance Cary; Morgan, Michael Kent; Anderson, Arne Robert; Hart, Hope Prim; Warren, Gregory Wayne; Dunn, Martha M.; Chen, Jeng Shong

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9942589	A2	19990826	WO 1999-EP1015	19990218 <--
WO 9942589	A3	19991223		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6281413	B1	20010828	US 1999-251645	19990217
CA 2320801	AA	19990826	CA 1999-2320801	19990218 <--
AU 9930286	A1	19990906	AU 1999-30286	19990218 <--
EP 1054972	A2	20001129	EP 1999-911676	19990218 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, FI				
JP 2002504336	T2	20020212	JP 2000-532529	19990218
ZA 9901350	A	19990820	ZA 1999-1350	19990219 <--
PRIORITY APPLN. INFO.:			US 1998-27080	A 19980220
			US 1999-116439P	P 19990120
			US 1998-126433P	P 19980220
			US 1998-116439P	P 19990120
			WO 1999-EP1015	W 19990218

ED Entered STN: 31 Aug 1999
 AB Novel nucleic acid sequences isolated from *Photorhabdus luminescens*, whose expression results in novel insecticidal toxins, are disclosed. Two large genomic segments containing multiple open reading frames encoding protein products with insecticidal activity are provided. The invention also discloses compns. and formulations containing the insecticidal toxins that are capable of controlling insect pests. The invention is further drawn to recombinant methods of making the toxins and to methods of using the nucleotide sequences, for example in microorganisms to control insect pests or in transgenic plants to confer insect resistance.
 IC ICM C12N015-31
 ICS C12N015-82; C12N015-10; C12N001-21; C12N005-10; A01H005-00;
 C07K014-24; A01N063-02
 CC 5-4 (Agrochemical Bioregulators)
 Section cross-reference(s): 3, 4, 10
 IT Chimeric gene
 RL: AGR (Agricultural use); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (insecticidal toxins and their genes from *Photorhabdus luminescens*)
 IT 238083-09-5 238083-10-8 238083-11-9 238083-12-0 238083-13-1
 238083-15-3 238083-16-4 238083-17-5
 RL: AGR (Agricultural use); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (amino acid sequence; insecticidal toxins and their genes from *Photorhabdus luminescens*)

L9 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1998:165497 CAPLUS
 DOCUMENT NUMBER: 128:214446
 TITLE: Insecticidal protein toxins from *Photorhabdus luminescens*
 INVENTOR(S): Ensign, Jerald C.; Bowen, David J.; Petell, James;
 Fatig, Raymond; Schoonover, Sue; Ffrench-Constant,
 Richard H.; Rocheleau, Thomas A.; Blackburn, Michael
 B.; Hey, Timothy D.; Merlo, Donald J.; Orr, Gregory
 L.; Roberts, Jean L.; et al.
 PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA; Wisconsin Alumni Research Foundation
 SOURCE: PCT Int. Appl., 321 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 9808932	A1	19980305	WO 1997-US7657	19970505 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,				

	SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN			
RW:	AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
WO 9717432	A1 19970515	WO 1996-US18003	19961106	<--
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2263819	AA 19980305	CA 1997-2263819	19970505	<--
AU 9728299	A1 19980319	AU 1997-28299	19970505	<--
EP 970185	A1 20000112	EP 1997-922696	19970505	<--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
BR 9711441	A 20001024	BR 1997-11441	19970505	<--
JP 2000515024	T2 20001114	JP 1998-511612	19970505	<--
TW 509722	B 20021111	TW 1997-86112391	19970828	
MX 9901931	A 20000731	MX 1999-1931	19990226	<--
JP 2004089189	A2 20040325	JP 2003-197785	20030716	
JP 3657593	B2 20050608			
PRIORITY APPLN. INFO.:				
		US 1996-705484	A 19960828	
		US 1996-743699	A 19961106	
		WO 1996-US18003	A 19961106	
		US 1995-7255P	P 19951106	
		US 1996-608423	A 19960228	
		JP 1997-518369	A3 19961106	
		WO 1997-US7657	W 19970505	

- ED Entered STN: 20 Mar 1998
- AB Proteins from the genus *Photorhabdus* are toxic to insects upon exposure. *Photorhabdus luminescens* (formerly *Xenorhabdus luminescens*) have been found in mammalian clin. samples and as a bacterial symbiont of entomopathogenic nematodes of genus *Heterorhabditis*. The native toxins are protein complexes that are produced and secreted by growing bacteria. The protein complexes, with a mol. size of .apprx.1000 kDa, can be separated by SDS-PAGE gel anal. into numerous component proteins. The toxins contain no hemolysin, lipase, type C phospholipase, or nuclease activities, but exhibit significant toxicity upon exposure administration to a number of insects. PCR cloning yielded gene sequences (tca, tcb, tcc, and tcd regions) encoding the insecticidal toxins from *P. luminescens* strain W-14 and several other strains. These protein toxins can be applied to, or genetically engineered into, insect larvae food and plants for insect control.
- IC ICM C12N001-00
ICS C12N001-20; C12N015-00; C12N015-09; C12N015-10; C12N015-29; C12N015-31; C12N015-82; A01G013-00; A01H001-00; A01H003-00; A01H004-00; A01H005-00
- CC 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 3, 4, 10
- IT Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(DNA chimeric constructs containing; insecticidal protein toxin complex from *Photorhabdus* and cloning and expression of cDNAs encoding components)
- IT 191289-67-5, Protein (*Xenorhabdus luminescens* gene tcaA insecticidal protein complex subunit TcaA) 191289-69-7, Protein (*Xenorhabdus luminescens* insecticidal protein complex subunit P8) 191289-71-1, 1-627-Protein (*Xenorhabdus luminescens* insecticidal protein complex

subunit P8) 191289-73-3, Protein (Xenorhabdus luminescens insecticidal protein complex subunit S8) 191289-75-5, Protein (Xenorhabdus luminescens insecticidal protein complex 1485-amino acid subunit) 191289-76-6, DNA (Xenorhabdus luminescens insecticidal protein complex 1095-amino acid subunit gene) 191289-77-7, Protein (Xenorhabdus luminescens insecticidal protein complex 1095-amino acid subunit) 191289-78-8, 493-1095-Protein (Xenorhabdus luminescens insecticidal protein complex 1095-amino acid subunit) 191289-80-2, Protein (Xenorhabdus luminescens insecticidal protein complex 845-amino acid subunit)

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(amino acid sequence; insecticidal protein toxin complex from Photorhabdus and cloning and expression of cDNAs encoding components)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:546368 CAPLUS

DOCUMENT NUMBER: 125:187616

TITLE: Functionally active domains of signal transducer and

activators of transcription (STAT) proteins

Darnell, James E., Jr.; Wen, Zilong; Horvath, Curt M.;

Zhong, Zhong

PATENT ASSIGNEE(S): The Rockefeller University, USA

SOURCE: PCT Int. Appl., 137 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620954	A2	19960711	WO 1995-US17025	19951228 <-
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5716622	A	19980210	US 1995-369796	19950106 <-
CA 2209604	AA	19960711	CA 1995-2209604	19951228 <-
AU 9645305	A1	19960724	AU 1996-45305	19951228 <-
US 5883228	A	19990316	US 1997-852091	19970506 <-
PRIORITY APPLN. INFO.:			US 1995-369796	A 19950106
			WO 1995-US17025	W 19951228

ED: Entered STN: 13 Sep 1996

AB: The present invention relates generally to intracellular receptor recognition proteins or factors, termed Signal Transducers and Activators of Transcription (STAT), to methods and composition utilizing such factors, and to the antibodies reactive toward them, in assays and for diagnosing, preventing and/or treating cellular debilitation, derangement, or dysfunction. More particularly, the present invention relates to particular functional domains of mols. that exhibit both receptor recognition and message delivery via DNA binding in receptor-ligand specific manner, i.e., that directly participate both in the interaction with the ligand-bound receptor at the cell surface and in the activity of

transcription in the nucleus as a DNA-binding protein. The invention likewise relates to the antibodies and other entities that are specific to the functional domain of a STAT and protein and that would thereby selectively modulate its activity. Thus, the high amino acid sequence identity between human Stat1 and Stat3, coupled with the inherent ability of Stat3 to distinguish between M67 and GRR promoter elements, made it possible to define the DNA-binding domain of the STAT proteins by exchanging regions between 2 proteins and assaying the substituted proteins for DNA site binding preference. The technique resulted in identifying residues 406-514 as capable of the transfer of binding specificity, since an activated Stat1 mol. containing residues 406-514 of Stat3 could bind only to the M67 probe and not to the GRR probe while activated STAT1 itself binds to both probes. Within these 108 amino acids, Stat1 and Stat3 have only 43 amino acid residues. Mutations targeted to the most conserved sequences (Glu434Glu435→Ala-Ala and/or Val461Val462Val463→Ala-Ala-Ala) in this domain have no effect on phosphorylation or dimerization of the STAT proteins, but reduce DNA binding. Amino acids in the 293-467 region of all the presently cloned STATs were analyzed to predict secondary structure motifs in the putative DNA-binding regions. In addition to the DNA-binding sites, the STAT proteins become activated by phosphorylation in response to polypeptide receptor interaction at the cell surface, e.g., interferon- γ for Stat1 α , and interleukin-6 or epidermal growth factor for Stat3. Maximum Stat1 α activation of genes required phosphorylation of both tyrosine-701 and serine-727.

- IC ICM C07K014-47
 ICS G01N033-68
 CC 3-4 (Biochemical Genetics)
 Section cross-reference(s): 13
 IT Autoimmune disease
 Disease
 Infection
 Inflammation
 Neoplasm
 Parasite
 (treatment with chimeric or mutagenized STAT proteins;
 functionally active domains of signal transducer and activators of transcription (STAT) proteins)
 IT 148349-37-5, Ribonucleic acid formation factor ISGF 3 (human clone E4 91-kilodalton α -subunit reduced) 148349-38-6, Ribonucleic acid formation factor ISGF 3 (human clone E3 84-kilodalton α -subunit reduced) 148349-39-7, Ribonucleic acid formation factor ISGF 3 (human clone f11/ka31 113-kilodalton α -subunit reduced) 156286-85-0 164716-25-0 164716-27-2
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (functionally active domains of signal transducer and activators of transcription (STAT) proteins)

L9 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:332747 CAPLUS
 DOCUMENT NUMBER: 125:1377
 TITLE: Transcription factor CIITA fusion products
 with DNA-binding proteins, chimeric gene
 expression, and immunosuppression for treating
 autoimmune diseases
 INVENTOR(S): Glimcher, Laurie H.; Zhou, Hong; Douhan, John, III
 PATENT ASSIGNEE(S): President and Fellows of Harvard College, USA
 SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9606107	A1	19960229	WO 1995-US10691	19950822 <--
W: AU, CA, CN, FI, JP, KR, MX, NO, NZ, PL, RU, UA RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5672473	A	19970930	US 1994-295502	19940824 <--
CA 2197233	AA	19960229	CA 1995-2197233	19950822 <--
CA 2197233	C	20010220		
AU 9534126	A1	19960314	AU 1995-34126	19950822 <--
AU 700235	B2	19981224		
EP 777677	A1	19970611	EP 1995-930911	19950822 <--
EP 777677	B1	20020612		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1164236	A	19971105	CN 1995-195840	19950822 <--
JP 10507908	T2	19980804	JP 1996-508279	19950822 <--
RU 2160447	C2	20001210	RU 1997-104477	19950822 <--
AT 219099	E	20020615	AT 1995-930911	19950822
PT 777677	T	20021129	PT 1995-930911	19950822
ES 2178677	T3	20030101	ES 1995-930911	19950822
ZA 9507120	A	19960326	ZA 1995-7120	19950824 <--
FI 9700735	A	19970421	FI 1997-735	19970221 <--
NO 9700803	A	19970421	NO 1997-803	19970221 <--
PRIORITY APPLN. INFO.:			US 1994-295502	A 19940824
			WO 1995-US10691	W 19950822

ED Entered STN: 08 Jün 1996

AB Disclosed are methods of identifying compds. which inhibit transcription activation by CIITA and thus inhibit MHC class II gene expression. Such compds. can affect the induction of an immune response. The methods employ, independently, the activation and interaction domains of CIITA. The methods also employ the activation and interaction domains of isotype-specific CIITA proteins, allowing for the identification of compds. which are isotype-specific inhibitors of transcription and which are useful for selectively affecting the immune system.

IC ICM C07H021-04

ICS C07K014-47; C12N015-12; C12Q001-02; C12Q001-68; G01N033-566

CC 1-7 (Pharmacology)

Section cross-reference(s): 3, 13, 15

ST human gene CIITA transcription factor sequence; autoimmune disease treatment CIITA fusion protein; immune suppressant CIITA fusion protein expression

IT Eukaryote

Prokaryote

(expression host cell; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Autoimmune disease

Immunosuppressants

Mutation

Plasmid and Episome

Protein sequences

(transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Ribonucleic acid formation factors

RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(α -transducing factor, fusion products with CIITA factor; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Lymphocyte
(B-cell, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Proteins, specific or class
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(DNA-binding, fusion products with CIITA factor; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Gene, animal
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(HLA-DQ, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HLA-DQ, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(MHC (major histocompatibility antigen complex), class II, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Gene, animal
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(Mhc, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Deoxyribonucleic acid sequences
(complementary, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Ribonucleic acid formation factors
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(gene GAL4, fusion products with CIITA factor; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Ribonucleic acid formation factors
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(gene lexA, fusion products with CIITA factor; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT Therapeutics

(geno-, transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT 152988-72-2P

RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

IT 177257-00-0

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(nucleotide sequence; transcription factor CIITA fusion products with DNA-binding proteins, chimeric gene expression, and immunosuppression for treating autoimmune diseases)

L9 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:777843 CAPLUS

DOCUMENT NUMBER: 123:164072

TITLE: Fusion enzyme containing cytochrome P450 17 α and cytochrome P450 C25 and NADPH-cytochrome P450 reductase

INVENTOR(S): Sakaki, Toshuki; Akyoshi, Megumi; Yabusaki, Yoshasu

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
JP 07147975	A2	19950613	JP 1993-298279	19931129 <--
PRIORITY APPLN. INFO.:			JP 1993-298279	19931129

ED Entered STN: 07 Sep 1995

AB A recombinant fused gene was prepared by linking genes for cytochrome P 450 17 α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase. The fused gene was expressed in recombinant yeasts (e.g. *Saccharomyces*, *Schizosaccharomyces*, and *Candida*). For example, *Saccharomyces cerevisiae* strain AH22 expressed this fused enzyme. The expressed enzyme associated with microsomes. This fused enzyme may be used in oxidation of toxic compds. in industrial waste water. The plasmid containing this fused gene was named pAFC25R.

IC ICM C12N009-02

ICS C12N001-19; C12N015-09

ICI C12N009-02, C12R001-865; C12N001-19, C12R001-865

CC 7-2 (Enzymes)

IT Gene, microbial

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(fused; fusion enzyme containing cytochrome P 450 17 α and cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)

IT Saccharomyces
Saccharomyces cerevisiae
Schizosaccharomyces
Wastewater treatment
(fusion enzyme containing cytochrome P 450 17 α and
cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT Enzymes
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP
(Preparation)
(fusion enzyme containing cytochrome P 450 17 α and
cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT Plasmid and Episome
(pAFC25R; fusion enzyme containing cytochrome P 450 17 α and
cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT 167470-66-8
RL: PRP (Properties)
(amino acid sequence; fusion enzyme containing cytochrome P 450
17 α and cytochrome P 450 C25 and NADPH-cytochrome P 450
reductase)
IT 9029-67-8P, Steroid 17 α -hydroxylase 9035-51-2P, Cytochrome p450,
preparation 9039-06-9P, NADPH-cytochrome P 450 reductase 60202-07-5P,
Steroid 25-hydroxylase
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP
(Preparation)
(fusion enzyme containing cytochrome P 450 17 α and
cytochrome P 450 C25 and NADPH-cytochrome P 450 reductase)
IT 167470-65-7
RL: PRP (Properties)
(nucleotide sequence; fusion enzyme containing cytochrome P 450
17 α and cytochrome P 450 C25 and NADPH-cytochrome P 450
reductase)

L9 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:510130 CAPLUS
DOCUMENT NUMBER: 119:110130
TITLE: The complete DNA sequence of yeast chromosome III
AUTHOR(S): Oliver, S. G.; Van der Aart, Q. J. M.;
Agostoni-Carbone, M. L.; Aigle, M.; Alberghina, L.;
Alexandraki, D.; Antoine, G.; Anwar, R.; Ballesta, J.
P. G.; et al.
CORPORATE SOURCE: Manchester Biotechnol. Cent., UMIST, Manchester, M60
1QD, UK

SOURCE: Nature (London, United Kingdom) (1992),
357(6373), 38-46
CODEN: NATUAS; ISSN: 0028-0836

DOCUMENT TYPE: Journal
LANGUAGE: English

ED Entered STN: 18 Sep 1993

AB The entire DNA sequence of chromosome III of the yeast Saccharomyces cerevisiae was determined. This is the first complete sequence anal. of an entire chromosome from any organism. The 315-kilobase sequence reveals 182 open reading frames for proteins longer than 100 amino acids, of which 37 correspond to known genes and 29 more show some similarity to sequences in databases. Of 55 new open reading frames analyzed by gene disruption, 3 are essential genes; of 42 non-essential genes that were tested, 14 show some discernible effect on phenotype and the remaining 28 have no overt function.

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 7, 10
IT Gene, microbial

RL: BIOL (Biological study)
 (BIK1, for nuclear fusion protein, of *Saccharomyces cerevisiae* chromosome III, nucleotide sequence and mapping of)

IT Gene, microbial
 RL: BIOL (Biological study)
 (FUS1, for cell fusion protein, of *Saccharomyces cerevisiae* chromosome III, nucleotide sequence and mapping of)

IT 119685-10-8, Protein (*Saccharomyces cerevisiae* gene RAD18 reduced)
 123609-60-9 126731-60-0 128561-33-1, Protein ERS 1 (*Saccharomyces cerevisiae* reduced) 131201-25-7, Protein (*Saccharomyces cerevisiae* clone pYthr4 gene CTR86 reduced) 133105-78-9, Protein (*Saccharomyces cerevisiae* clone E5F 347-amino acid reduced) 133105-79-0, Protein (*Saccharomyces cerevisiae* clone E5F 394-amino acid reduced) 133105-80-3, Protein (*Saccharomyces cerevisiae* clone E5F 923-amino acid reduced)
 133106-26-0 133758-76-6 135622-70-7, Protein (*Saccharomyces cerevisiae* clone YCpAER2 gene TUP1 reduced) 135930-80-2 139021-11-7, Protein (*Saccharomyces cerevisiae* clone E5F 138-kilodalton reduced) 144350-14-1
 144998-38-9, Protein (*Saccharomyces cerevisiae* strain XJ24-24a gene ADP1 reduced) 146212-39-7, Protein (*Saccharomyces cerevisiae* clone P78 196-amino acid reduced) 146212-40-0, Protein (*Saccharomyces cerevisiae* clone P78 146-amino acid reduced) 146212-41-1, Protein (*Saccharomyces cerevisiae* clone P78 308-amino acid reduced) 146212-42-2, Protein (*Saccharomyces cerevisiae* clone P78 115-amino acid reduced) 146212-43-3, Protein (*Saccharomyces cerevisiae* clone P78 143-amino acid reduced)
 146212-44-4, Protein (*Saccharomyces cerevisiae* clone P78 200-amino acid reduced) 146212-45-5, Protein (*Saccharomyces cerevisiae* clone P78 373-amino acid reduced) 146212-46-6, Protein (*Saccharomyces cerevisiae* clone P78 458-amino acid reduced) 146212-47-7, Protein (*Saccharomyces cerevisiae* clone P78 190-amino acid reduced) 146212-48-8, Factor α (*Saccharomyces cerevisiae* clone P78 gene HMLα2 reduced) 146212-49-9, Factor α (*Saccharomyces cerevisiae* clone P78 gene HMLα1)
 146212-50-2, Protein (*Saccharomyces cerevisiae* clone P78 122-amino acid reduced) 146212-51-3 146212-52-4, Protein (*Saccharomyces cerevisiae* clone J10A 128-amino acid) 146212-53-5, Protein (*Saccharomyces cerevisiae* clone J10A 195-amino acid) 146212-54-6, Protein (*Saccharomyces cerevisiae* clone J10A 329-amino acid) 146212-55-7, Protein (*Saccharomyces cerevisiae* clone J10A 317-amino acid)
 146212-56-8, Protein (*Saccharomyces cerevisiae* clone J10A 316-amino acid reduced) 146212-57-9, Protein (*Saccharomyces cerevisiae* clone J10A 152-amino acid reduced) 146212-58-0, Protein (*Saccharomyces cerevisiae* clone J10A 132-amino acid reduced) 146212-59-1, Protein (*Saccharomyces cerevisiae* clone J10A 712-amino acid reduced) 146212-60-4, Protein (*Saccharomyces cerevisiae* clone D10B 144-amino acid reduced)
 146212-61-5, Protein (*Saccharomyces cerevisiae* clone D10B 335-amino acid reduced) 146212-62-6, Protein (*Saccharomyces cerevisiae* clone D10B/B9G 724-amino acid reduced) 146212-63-7, Protein (*Saccharomyces cerevisiae* clone B9G 134-amino acid reduced) 146212-64-8, Protein (*Saccharomyces cerevisiae* clone B9G 149-amino acid reduced) 146212-65-9, Protein (*Saccharomyces cerevisiae* clone B9G 416-amino acid reduced) 146212-66-0, Protein (*Saccharomyces cerevisiae* clone B9G 586-amino acid reduced)
 146212-67-1, Protein (*Saccharomyces cerevisiae* clone A6C 312-amino acid reduced) 146212-68-2, Protein (*Saccharomyces cerevisiae* clone A6C 463-amino acid reduced) 146212-69-3, Protein (*Saccharomyces cerevisiae* clone A6C 127-amino acid reduced) 146212-70-6, Protein (*Saccharomyces cerevisiae* clone A6C 258-amino acid reduced) 146212-71-7, Protein (*Saccharomyces cerevisiae* clone A1G 760-amino acid reduced) 146212-72-8, Protein (*Saccharomyces cerevisiae* clone A1G 107-amino acid reduced)
 146212-73-9, Protein (*Saccharomyces cerevisiae* clone A1G 417-amino acid)
 146212-74-0, Protein (*Saccharomyces cerevisiae* clone A1G 148-amino acid)
 146212-75-1, Protein (*Saccharomyces cerevisiae* clone A1G 164-amino acid)

reduced) 146212-76-2, Protein (Saccharomyces cerevisiae clone A1G 118-amino acid reduced) 146212-77-3, Protein (Saccharomyces cerevisiae clone A1G/A4H 759-amino acid reduced) 146212-78-4, Protein (Saccharomyces cerevisiae clone A4H 528-amino acid reduced) 146212-79-5, Protein (Saccharomyces cerevisiae clone A4H 466-amino acid) 146212-80-8, Protein (Saccharomyces cerevisiae clone C1G 566-amino acid reduced) 146212-81-9, Protein (Saccharomyces cerevisiae clone C1G 110-amino acid reduced) 146212-82-0, Protein (Saccharomyces cerevisiae clone C1G 212-amino acid) 146212-83-1, Protein (Saccharomyces cerevisiae clone C1G 105-amino acid reduced) 146212-84-2, Protein (Saccharomyces cerevisiae clone C1G 168-amino acid reduced) 146212-85-3, Protein (Saccharomyces cerevisiae clone C1G 346-amino acid reduced) 146212-86-4, Protein (Saccharomyces cerevisiae clone C1G 297-amino acid reduced) 146212-87-5 146212-88-6, Protein (Saccharomyces cerevisiae clone C1G gene BIK1 reduced) 146212-89-7, Protein (Saccharomyces cerevisiae clone C1G 405-amino acid) 146212-90-0, Protein (Saccharomyces cerevisiae clone C1G 110-amino acid reduced) 146212-91-1, Glycoprotein (Saccharomyces cerevisiae clone C1G gene FUS1 reduced) 146212-92-2, Protein (Saccharomyces cerevisiae clone C1G 112-amino acid reduced) 146212-93-3, Protein (Saccharomyces cerevisiae clone C1G 192-amino acid reduced) 146212-94-4, Protein (Saccharomyces cerevisiae clone C1G 119-amino acid reduced) 146212-95-5, Protein (Saccharomyces cerevisiae clone C1G 633-amino acid reduced) 146212-96-6, Protein (Saccharomyces cerevisiae clone C1G 130-amino acid reduced) 146212-97-7, Protein (Saccharomyces cerevisiae clone C1G 115-amino acid reduced) 146212-98-8, Protein (Saccharomyces cerevisiae clone C1G 816-amino acid reduced) 146212-99-9, Protein (Saccharomyces cerevisiae clone A5C 171-amino acid reduced) 146213-00-5, Protein (Saccharomyces cerevisiae clone A5C 117-amino acid reduced) 146213-01-6, Protein (Saccharomyces cerevisiae clone A5C Ty2 element 438-amino acid reduced) 146213-02-7, Protein (Saccharomyces cerevisiae clone A5C/G4B Ty2 element 1347-amino acid reduced) 146213-03-8 146213-04-9, Protein (Saccharomyces cerevisiae clone G4B 103-amino acid) 146213-05-0, Protein (Saccharomyces cerevisiae clone G4B gene NFS1 reduced) 146213-06-1, Protein (Saccharomyces cerevisiae clone G4B 309-amino acid reduced) 146213-07-2, Protein (Saccharomyces cerevisiae clone D8B 994-amino acid reduced) 146213-08-3, Protein (Saccharomyces cerevisiae clone D8B 132-amino acid) 146213-09-4, Protein (Saccharomyces cerevisiae clone D8B 152-amino acid) 146213-10-7, Protein (Saccharomyces cerevisiae clone D8B 427-amino acid reduced) 146213-11-8, Protein (Saccharomyces cerevisiae clone D8B 146-amino acid) 146213-12-9, Protein (Saccharomyces cerevisiae clone D8B 309-amino acid reduced) 146213-13-0, Protein (Saccharomyces cerevisiae clone D8B 152-amino acid reduced) 146213-14-1, Protein (Saccharomyces cerevisiae clone C2G 119-amino acid) 146213-15-2, Protein (Saccharomyces cerevisiae clone C2G 130-amino acid reduced) 146213-16-3, Protein (Saccharomyces cerevisiae clone C2G 109-amino acid reduced) 146213-17-4, Protein (Saccharomyces cerevisiae clone C2G 254-amino acid reduced) 146213-18-5, Protein (Saccharomyces cerevisiae clone C2G 112-amino acid reduced) 146213-19-6, Protein (Saccharomyces cerevisiae clone C2G 153-amino acid reduced) 146213-20-9, Protein (Saccharomyces cerevisiae clone C2G 176-amino acid) 146213-21-0, Protein (Saccharomyces cerevisiae clone C2G 126-amino acid reduced) 146213-22-1, Protein (Saccharomyces cerevisiae clone C2G 241-amino acid reduced) 146213-23-2, Protein (Saccharomyces cerevisiae clone A2C 104-amino acid reduced) 146213-24-3, Protein (Saccharomyces cerevisiae clone A2C 322-amino acid) 146213-25-4, Protein (Saccharomyces cerevisiae clone D10H 183-amino acid reduced) 146213-26-5, Protein (Saccharomyces cerevisiae clone D10H 247-amino acid reduced) 146213-27-6 146213-28-7, Protein (Saccharomyces cerevisiae clone D10H 157-amino acid reduced) 146213-29-8, Protein (Saccharomyces cerevisiae clone D10H 239-amino acid reduced) 146213-30-1, Protein (Saccharomyces

cerevisiae clone J11D gene RVS161 reduced) 146213-31-2, Protein
(Saccharomyces cerevisiae clone J11D 283-amino acid reduced)
146213-32-3, Protein (Saccharomyces cerevisiae clone J11D 100-amino acid
reduced) 146213-33-4 146213-34-5, Protein (Saccharomyces cerevisiae
clone J11D 215-amino acid) 146213-35-6, Protein (Saccharomyces
cerevisiae clone J11D/62B5 582-amino acid reduced) 146213-36-7, Protein
(Saccharomyces cerevisiae clone 62B5 317-amino acid reduced)
146213-37-8, Protein (Saccharomyces cerevisiae clone 62B5 290-amino acid)
146213-38-9, Protein (Saccharomyces cerevisiae clone 62B5 953-amino acid
reduced) 146213-39-0, Protein (Saccharomyces cerevisiae clone 62B5
225-amino acid reduced) 146213-40-3, Protein (Saccharomyces cerevisiae
clone HBGF gene MAK32 reduced) 146213-41-4, Protein (Saccharomyces
cerevisiae clone HBGF gene MAK31 reduced) 146213-42-5, Protein
(Saccharomyces cerevisiae clone HBGF 332-amino acid reduced)
146213-43-6, Protein (Saccharomyces cerevisiae clone HBGF 114-amino acid
reduced) 146213-44-7, Protein (Saccharomyces cerevisiae clone K3B
611-amino acid reduced) 146213-45-8, Protein (Saccharomyces cerevisiae
clone K3B 492-amino acid reduced) 146213-46-9, Protein (Saccharomyces
cerevisiae clone K3B 136-amino acid reduced) 146213-47-0, Protein
(Saccharomyces cerevisiae clone K3B/H9G 743-amino acid reduced)
146213-48-1, Protein (Saccharomyces cerevisiae clone H9G 209-amino acid
reduced) 146213-49-2, Protein (Saccharomyces cerevisiae clone H9G
512-amino acid reduced) 146213-50-5, Protein (Saccharomyces cerevisiae
clone H9G 140-amino acid) 146213-51-6, Protein (Saccharomyces cerevisiae
clone H9G 657-amino acid reduced) 146213-52-7, Protein (Saccharomyces
cerevisiae clone H9G 151-amino acid reduced) 146213-53-8, Protein
(Saccharomyces cerevisiae clone H9G/E5F 2167-amino acid reduced)
146213-54-9, Protein (Saccharomyces cerevisiae clone H9G/E5F 102-amino
acid reduced) 146213-55-0, Protein (Saccharomyces cerevisiae clone E5F
137-amino acid reduced) 146213-56-1, Protein (Saccharomyces cerevisiae
clone 5240 538-amino acid reduced) 146213-57-2, Protein (Saccharomyces
cerevisiae clone 5240 110-amino acid reduced) 146213-58-3, Protein
(Saccharomyces cerevisiae clone 5240 gene TSM1 reduced) 146213-59-4,
Protein (Saccharomyces cerevisiae clone 5240 159-amino acid reduced)
146213-60-7, Protein (Saccharomyces cerevisiae clone 5240 127-amino acid
reduced) 146213-61-8, Protein (Saccharomyces cerevisiae clone 5240
357-amino acid reduced) 146213-62-9, Protein (Saccharomyces cerevisiae
clone 5240 490-amino acid reduced) 146213-63-0, Protein (Saccharomyces
cerevisiae clone 5240 116-amino acid reduced) 146213-64-1, Protein
(Saccharomyces cerevisiae clone 5240 184-amino acid reduced)
146213-65-2, Protein (Saccharomyces cerevisiae clone 5240 169-amino acid)
146213-66-3, Protein (Saccharomyces cerevisiae clone 5240 275-amino acid
reduced) 146213-67-4, Protein (Saccharomyces cerevisiae clone 5240
148-amino acid reduced) 146213-68-5, Protein (Saccharomyces cerevisiae
clone 5239 610-amino acid reduced) 146213-69-6, Protein (Saccharomyces
cerevisiae clone 5239 103-amino acid reduced) 146213-70-9, Protein
(Saccharomyces cerevisiae clone 5239 102-amino acid reduced)
146213-71-0, Protein (Saccharomyces cerevisiae clone 5239 222-amino acid)
146213-72-1, Protein (Saccharomyces cerevisiae clone 5239 483-amino acid)
146213-74-3, Protein (Saccharomyces cerevisiae clone 5239 334-amino acid)
146213-75-4, Protein (Saccharomyces cerevisiae clone 5239 439-amino acid
reduced) 146213-76-5, Protein (Saccharomyces cerevisiae clone 5239
122-amino acid reduced) 146213-77-6, Protein (Saccharomyces cerevisiae
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(Saccharomyces cerevisiae clone 5239 111-amino acid reduced)
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120-amino acid reduced) 146213-82-3, Protein (Saccharomyces cerevisiae
clone 5307 136-amino acid reduced) 146213-83-4, Protein (Saccharomyces

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146213-85-6, Protein (Saccharomyces cerevisiae clone 5307 105-amino acid reduced) 146213-86-7, Protein (Saccharomyces cerevisiae clone 5307 1064-amino acid reduced) 146213-87-8, Protein (Saccharomyces cerevisiae clone 5307 104-amino acid reduced) 146213-88-9, Protein (Saccharomyces cerevisiae clone 5307 124-amino acid) 146213-89-0, Protein (Saccharomyces cerevisiae clone 5307 429-amino acid reduced)
146213-90-3, Protein (Saccharomyces cerevisiae clone 5307 170-amino acid reduced) 146213-91-4, Protein (Saccharomyces cerevisiae clone 6589 174-amino acid reduced) 146213-92-5, Protein (Saccharomyces cerevisiae clone 6589 121-amino acid reduced) 146213-93-6, Protein (Saccharomyces cerevisiae clone 6589 514-amino acid reduced) 146213-94-7, Protein (Saccharomyces cerevisiae clone 6589 1314-amino acid reduced)
146213-95-8, Protein (Saccharomyces cerevisiae clone 6589 146-amino acid reduced) 146213-96-9, Protein (Saccharomyces cerevisiae clone 6589 315-amino acid reduced) 146213-97-0, Protein (Saccharomyces cerevisiae clone 6589 106-amino acid reduced) 146213-98-1, Protein (Saccharomyces cerevisiae clone 6589 250-amino acid reduced) 146213-99-2, Protein (Saccharomyces cerevisiae clone 6589 509-amino acid) 146214-00-8, Protein (Saccharomyces cerevisiae clone 6589 105-amino acid reduced)
146214-01-9, Protein (Saccharomyces cerevisiae clone 6589 114-amino acid reduced) 146214-02-0, Protein (Saccharomyces cerevisiae clone 6589 435-amino acid reduced) 146214-03-1, Protein (Saccharomyces cerevisiae clone 6589 102-amino acid reduced) 146214-04-2, Protein (Saccharomyces cerevisiae clone 6589 195-amino acid) 146214-05-3, Protein (Saccharomyces cerevisiae clone 6589/7260 1226-amino acid reduced)
146214-06-4, Protein (Saccharomyces cerevisiae clone 7260 128-amino acid)
146214-07-5, Protein (Saccharomyces cerevisiae clone 7260 127-amino acid reduced) 146214-08-6, Protein (Saccharomyces cerevisiae clone 7260 117-amino acid reduced) 146214-09-7, Protein (Saccharomyces cerevisiae clone 7260 190-amino acid) 146214-10-0, Protein (Saccharomyces cerevisiae clone 7260 171-amino acid reduced) 146214-11-1, Protein (Saccharomyces cerevisiae clone 7260 153-amino acid reduced)
146214-12-2, Protein ABP (Saccharomyces cerevisiae clone 3712 gene ABP1 actin-binding) 146214-13-3, Protein (Saccharomyces cerevisiae clone 3712 123-amino acid reduced) 146214-14-4, Protein (Saccharomyces cerevisiae clone 3712 1609-amino acid reduced) 146214-15-5, Protein (Saccharomyces cerevisiae clone 3712 135-amino acid reduced) 146214-16-6, Protein (Saccharomyces cerevisiae clone 3712 182-amino acid reduced)
146214-17-7, Protein (Saccharomyces cerevisiae clone 3712 726-amino acid reduced) 146214-18-8, Protein (Saccharomyces cerevisiae clone 3712 1047-amino acid reduced) 146214-19-9, Protein (Saccharomyces cerevisiae clone 3712 119-amino acid reduced) 146214-20-2, Protein (Saccharomyces cerevisiae clone 3712/9189 2108-amino acid reduced) 146214-21-3, Protein (Saccharomyces cerevisiae clone 3712 103-amino acid reduced)
146214-22-4, Protein (Saccharomyces cerevisiae clone 9189 391-amino acid reduced) 146214-23-5, Protein (Saccharomyces cerevisiae clone 9189 362-amino acid reduced) 146214-24-6, Factor α (Saccharomyces cerevisiae clone 9189 gene HMRA2) 146214-25-7 146214-26-8, Protein (Saccharomyces cerevisiae clone 9189 fragment reduced) 146214-27-9, Protein (Saccharomyces cerevisiae clone 9189 518-amino acid reduced)
146214-28-0, Protein (Saccharomyces cerevisiae clone 9189 155-amino acid reduced) 146214-29-1, Protein (Saccharomyces cerevisiae clone 9189 316-amino acid reduced) 146214-30-4, Protein (Saccharomyces cerevisiae clone 9189 182-amino acid reduced) 146214-31-5, Protein (Saccharomyces cerevisiae clone 9189 368-amino acid reduced) 146214-32-6, Protein (Saccharomyces cerevisiae clone 9189 111-amino acid reduced)
146214-33-7, Protein (Saccharomyces cerevisiae clone 9189 124-amino acid)
146214-34-8, Protein (Saccharomyces cerevisiae clone 9189 361-amino acid)

Agnes Rooke 10/015, 956

reduced) 146214-35-9, Protein (Saccharomyces cerevisiae clone 9189/H4 832-amino acid reduced) 146214-36-0, Protein (Saccharomyces cerevisiae clone H4 363-amino acid reduced) 146214-37-1, Protein (Saccharomyces cerevisiae clone H4 128-amino acid reduced) 146214-38-2, Protein rp 59 (Saccharomyces cerevisiae clone H9G gene CRY1 ribosome)
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence of, complete)

L9 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:632040 CAPLUS
DOCUMENT NUMBER: 117:232040
TITLE: Genetically-engineered coccidiosis vaccine
INVENTOR(S): Jacobson, James W.; Strausberg, Robert L.; Wilson, Susan D.; Pope, Sharon H.; Strausberg, Susan Lee; Raether, Wolfgang
PATENT ASSIGNEE(S): Genex Corp., USA; Hoechst A.-G.
SOURCE: PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9204461	A1	19920319	WO 1991-US6431	19910905 <--
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
EP 548252	A1	19930630	EP 1991-917491	19910905 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 06504187	T2	19940519	JP 1991-516046	19910905 <--
PRIORITY APPLN. INFO.:			US 1990-581694	A2 19900912
			WO 1991-US6431	W 19910905

ED Entered STN: 13 Dec 1992

AB Recombinant antigenic proteins of avian coccidiosis, antigenic fragments of the proteins, genes encoding the polypeptides, and vaccines comprising the antigenic proteins or live transformed microorganism are disclosed. CDNA encoding antigen mc-4c of Eimeria maxima oocysts was identified and cloned and the nucleotide and amino acid sequences are presented. DNAs for other antigens of E. maxima and of E. tenella were also cloned and sequenced.

IC ICM C12P021-00
ICS C12N001-20; C12N015-00; A61K039-00; C07H015-12

CC 15-2 (Immunochemistry)

Section cross-reference(s): 3

IT Proteins, specific or class

RL: BIOL (Biological study)

(fusion products, of antigen mc-30c of Eimeria maxima and
β-galactosidase)

IT 9012-90-2D, fusion products

RL: BIOL (Biological study)

(MS-2, with antigen mc-30c of Eimeria maxima)

IT 144518-08-1, Antigen mc 4c (Eimeria maxima clone λmc-36c C-terminal fragment reduced) 144518-10-5, Antigen mc 5c (Eimeria maxima clone pGX5376 C-terminal fragment reduced) 144518-12-7, Antigen mc 30c (Eimeria maxima clone pGX5370 C-terminal fragment reduced) 144518-14-9, Antigen mc 35c (Eimeria maxima clone pGX5367 C-terminal fragment) 144518-16-1, Antigen tg 3e (Eimeria tenella clone pGX5390 12.7-kilodalton fragment) 144518-18-3, Antigen tc 11e (Eimeria tenella clone

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pGX5394 13.9-kilodalton fragment) 144518-20-7, Antigen tc 23g (Eimeria tenella clone pGX5398 C-terminal fragment) 144518-22-9, Antigen tc 26h (Eimeria tenella 10-kilodalton fragment) 144518-24-1, Antigen tc 30c (Eimeria tenella 9.5-kilodalton fragment) 144518-26-3, Antigen tc 32c (Eimeria tenella 8.8-kilodalton fragment) 144518-28-5, Antigen tc 33c (Eimeria tenella 12.5-kilodalton fragment) 144518-30-9, Antigen tc 35c (Eimeria tenella 5.0-kilodalton fragment) 144518-32-1, 1-147-Antigen mc 37c (Eimeria maxima)
RL: BIOL (Biological study)
(amino acid sequence of and cloning of gene for, coccidiosis vaccine in relation to)

IT 9031-11-2D, β -Galactosidase, fusion products
RL: BIOL (Biological study)
(with antigen mc-30c of Eimeria maxima)

THE ESTIMATED COST FOR THIS REQUEST IS 59.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

✓3
L16 ANSWER 1 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:431457 CAPLUS
DOCUMENT NUMBER: 142:462276
TITLE: Tumor-associated target polypeptides for diagnosis and treatment
INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen; Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria; Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin; Sakanaka, Chie; Chuntharapai, Anan; Reed, Chae Janeka Genentech, Inc., USA
PATENT ASSIGNEE(S):
SOURCE: U.S. Pat. Appl. Publ., 338 pp., Cont.-in-part of U.S. Ser. No. 177,488.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107595	A1	20050519	US 2004-938061	20040910
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EP 1466977	A1	20041013	EP 2004-7618	19991202
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NZ 523207	A	20041224	NZ 2000-523207	20000211
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CA 2481788	AA	20010308	CA 2000-2481788	20000824
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CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
AU 758921	B2	20030403	AU 2001-57764	20010801

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AU 759004	B2	20030403	AU 2001-57765	20010801
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JP 2004520810	T2	20040715	JP 2002-522275	20010823
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US 2003170254	A1	20030911	US 2001-17191	20011024
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AU 772759	B2	20040506	AU 2002-14767	20020201
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EP 1402260	A2	20040331	EP 2002-731246	20020403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003148438	A1	20030807	US 2002-145821	20020514
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US 2003064462	A1	20030403	US 2002-206919	20020726
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US 2005202475	A1	20050915	US 2005-38328	20050118
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US 2005170458	A1	20050804	US 2005-50154	20050202
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PRIORITY APPLN. INFO.:			US 2001-299500P	P 20010620
			US 2001-301880P	P 20010629
			US 2001-323268P	P 20010918
			US 2002-177488	A2 20020619
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Agnes Rooke 10/015,956

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CA 1999-2344465	A3 19991005
EP 1999-960644	A3 19991202
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US 2001-331906P	P 20011120
WO 2001-US48938	W 20011213
US 2002-345444P	P 20020102
US 2002-52586	A1 20020115
US 2002-369724P	P 20020403
WO 2002-US10513	W 20020403
US 2002-123155	A1 20020415
US 2002-127825	A1 20020422
US 2002-127966	B1 20020423
US 2002-141703	A1 20020508
US 2002-145627	A1 20020514
US 2002-145751	A 20020514
US 2002-146793	A1 20020515
US 2002-197703	B1 20020717
US 2002-197708	A1 20020717
US 2002-199666	A1 20020718
US 2002-199464	B1 20020719
US 2002-211858	A1 20020802

US 2002-404809P	P 20020819
US 2002-241220	A1 20020911
US 2004-797366	A1 20040309

ED Entered STN: 20 May 2005
 AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.
 IC ICM C07K016-44
 ICS C07K016-18
 INCL 530387300; 530388100
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 1, 8, 14
 IT Antibodies and Immunoglobulins
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (chimeric; to tumor-associated target polypeptides)
 IT 851741-85-0, Antigen TAT161 (human clone DNA77507) 851741-86-1, Antigen TAT101 (human clone DNA80894) 851741-87-2, Antigen TAT157 (human clone DNA82343) 851741-88-3, Antigen TAT160 (human clone DNA87994) 851741-89-4, Antigen TAT158 (human clone DNA88131) 851741-90-7, Antigen TAT110 (human clone DNA95930) 851741-91-8, Antigen TAT210 (human clone DNA95930-1) 851741-92-9, Antigen TAT159 (human clone DNA96917) 851741-93-0, Antigen TAT112 (human clone DNA96930) 851741-94-1, Antigen TAT147 (human clone DNA96936) 851741-95-2, Antigen TAT145 (human clone DNA98565) 851741-96-3, Antigen TAT152 (human clone DNA246435) 851741-97-4, Antigen TAT162 (human clone DNA98591) 851741-98-5, Antigen TAT114 (human clone DNA108809) 851741-99-6, Antigen TAT119 (human clone DNA119488) 851742-00-2, Antigen TAT103 (human clone DNA1143493) 851742-01-3, Antigen TAT130 (human clone DNA167234) 851742-02-4, Antigen TAT166 (human clone DNA235621) 851742-03-5, Antigen TAT132 (human clone DNA176766) 851742-04-6, Antigen TAT150 (human clone DNA236463) 851742-05-7, Antigen TAT129 (human clone DNA1) 851742-06-8, Antigen TAT111 (human clone DNA188221) 851742-07-9, Antigen TAT146 (human clone DNA233876) 851742-08-0, Antigen TAT148 (human clone DNA193891) 851742-09-1, Antigen TAT187 (human clone DNA248170) 851742-10-4, Antigen TAT118 (human clone DNA194628) 851742-11-5, Antigen TAT167 (human clone DNA246415) 851742-12-6, Antigen TAT123 (human clone DNA210499) 851742-13-7, Antigen TAT211 (human clone DNA219894) 851742-14-8, Antigen TAT113 (human clone DNA215609) 851742-15-9, Antigen TAT128 (human clone DNA220432) 851742-16-0, Antigen TAT164 (human clone DNA226094) 851742-17-1, Antigen TAT122 (human clone DNA226165) 851742-18-2, Antigen TAT117 (human clone DNA226237) 851742-19-3, Antigen TAT168 (human clone DNA246450) 851742-20-6, Antigen TAT144 (human clone DNA226456) 851742-21-7 851742-22-8, Antigen TAT126 (human clone DNA226539) 851742-23-9, Antigen TAT151 (human clone DNA236511) 851742-24-0, Antigen TAT115 (human clone DNA226771) 851742-25-1, Antigen TAT163 (human clone DNA227087) 851742-26-2, Antigen TAT227 (human clone DNA266307) 851742-27-3, Antigen TAT228 (human clone DNA266311) 851742-28-4, Antigen TAT229 (human clone DNA266312) 851742-29-5, Antigen TAT230 (human clone DNA266313) 851742-30-8, Antigen TAT121 (human clone DNA227224) 851742-31-9, Antigen TAT183 (human clone DNA247486) 851742-32-0, Antigen TAT165 (human clone DNA227578) 851742-33-1, Antigen TAT131 (human clone DNA227800) 851742-34-2, Antigen TAT140 (human clone DNA227904) 851742-35-3, Antigen TAT127 (human clone DNA228199) 851742-36-4, Antigen TAT116 (human clone DNA228201) 851742-37-5, Antigen TAT189 (human clone DNA247488)

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 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic
 use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study);
 BIOL (Biological study); USES (Uses)
 (amino acid sequence; antibodies and immunotoxins to tumor-associated
 target polypeptides for diagnosis and treatment)

L16 ANSWER 2 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:429313 CAPLUS

DOCUMENT NUMBER: 142:462273

TITLE: Tumor-associated target polypeptides for diagnosis and
 treatment

INVENTOR(S): Cairns, Belinda; Chen, Ruihuan; Frantz, Gretchen;
 Hillan, Kenneth J.; Koeppen, Hartmut; Phillips, Heidi
 S.; Polakis, Paul; Spencer, Susan D.; Smith, Victoria;
 Williams, P. Mickey; Wu, Thomas D.; Zhang, Zemin;
 Sliwkowski, Mark

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 337 pp., Cont.-in-part of U.S.
 Ser. No. 177,488.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 140

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005106644	A1	20050519	US 2004-936626	20040908
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
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JP 2004520811	T2	20040715	JP 2002-522282	20010530
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AU 759004	B2	20030403	AU 2001-57765	20010801
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EP 1397383	A2	20040317	EP 2001-990229	20011213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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AU 772734	B2	20040506	AU 2002-14771	20020201
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1402260	A2	20040331	EP 2002-731246	20020403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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PRIORITY APPLN. INFO.:			US 2001-299500P	P 20010620
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ED Entered STN: 20 May 2005

AB The authors disclose gene expression and tissue distribution of polypeptides associated with human cancers. In addition, the authors disclose monoclonal antibodies and small interfering RNA mols. for the diagnosis and treatment of cancers expressing the target polypeptides.

IC ICM C07K016-30

ICS G01N033-574; C07H021-04

INCL 435007230; 536023200; 530350000; 530388800

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 8, 14

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(chimeric; to tumor-associated target polypeptides)

IT 851740-35-7, Antigen TAT161 (human clone DNA77507) 851740-36-8, Antigen TAT101 (human clone DNA80894) 851740-37-9, Antigen TAT157 (human clone DNA82343) 851740-38-0, Antigen TAT160 (human clone DNA87994) 851740-39-1, Antigen TAT158 (human clone DNA88131) 851740-40-4, Antigen TAT110 (human clone DNA95930) 851740-41-5, Antigen TAT210 (human clone DNA95930-1) 851740-42-6, Antigen TAT159 (human clone DNA96917) 851740-43-7, Antigen TAT112 (human clone DNA96930) 851740-44-8, Antigen TAT147 (human clone DNA96936) 851740-45-9, Antigen TAT145 (human clone DNA98565) 851740-46-0, Antigen TAT152 (human clone DNA246435) 851740-47-1, Antigen TAT162 (human clone DNA98591) 851740-48-2, Antigen TAT114 (human clone DNA108809) 851740-49-3, Antigen TAT119 (human clone DNA119488) 851740-50-6, Antigen TAT103 (human clone DNA1143493) 851740-51-7, Antigen TAT130 (human clone DNA167234) 851740-52-8, Antigen TAT166 (human clone DNA235621) 851740-53-9, Antigen TAT132 (human clone DNA176766) 851740-54-0, Antigen TAT150 (human clone DNA236463) 851740-55-1, Antigen TAT129 (human clone DNA1) 851740-56-2, Antigen TAT111 (human clone DNA188221) 851740-57-3, Antigen TAT146 (human clone DNA233876) 851740-58-4, Antigen TAT148 (human clone DNA193891) 851740-59-5, Antigen TAT187 (human clone DNA248170) 851740-60-8, Antigen TAT118 (human clone DNA194628) 851740-61-9, Antigen TAT167 (human clone DNA246415) 851740-62-0, Antigen TAT123 (human clone DNA210499) 851740-63-1, Antigen TAT211 (human clone DNA219894) 851740-64-2, Antigen TAT113 (human clone DNA215609) 851740-65-3, Antigen TAT128 (human clone DNA220432) 851740-66-4, Antigen TAT164 (human clone DNA226094) 851740-67-5, Antigen TAT122 (human clone DNA226165) 851740-68-6, Antigen TAT117 (human clone DNA226237) 851740-69-7, Antigen TAT168 (human clone DNA246450) 851740-70-0, Antigen TAT144 (human clone DNA226456) 851740-71-1 851740-72-2, Antigen TAT126 (human clone DNA226539) 851740-73-3, Antigen TAT151 (human clone DNA236511) 851740-74-4, Antigen TAT115 (human clone DNA226771) 851740-75-5, Antigen TAT163 (human clone DNA227087) 851740-76-6, Antigen TAT227 (human clone DNA266307) 851740-77-7, Antigen TAT228 (human clone DNA266311) 851740-78-8, Antigen TAT229 (human clone DNA266312) 851740-79-9, Antigen TAT230 (human clone DNA266313) 851740-80-2, Antigen TAT121 (human clone DNA227224) 851740-81-3, Antigen TAT183 (human clone DNA247486) 851740-82-4, Antigen TAT165 (human clone DNA227578) 851740-83-5, Antigen TAT131 (human clone DNA227800) 851740-84-6, Antigen TAT140 (human clone DNA227904) 851740-85-7, Antigen TAT127

(human clone DNA228199) 851740-86-8, Antigen TAT116 (human clone DNA228201) 851740-87-9, Antigen TAT189 (human clone DNA247488) 851740-88-0, Antigen TAT190 (human clone DNA236538) 851740-89-1, Antigen TAT191 (human clone DNA247489) 851740-90-4, Antigen TAT133 (human clone DNA228211) 851740-91-5, Antigen TAT186 (human clone DNA233937) 851740-92-6, Antigen TAT120 (human clone DNA228993) 851740-93-7, Antigen TAT124 (human clone DNA228994) 851740-94-8, Antigen TAT105 (human clone DNA229410) 851740-95-9, Antigen TAT107 (human clone DNA229411) 851740-96-0, Antigen TAT108 (human clone DNA229413) 851740-97-1, Antigen TAT139 (human clone DNA229700) 851740-98-2 851740-99-3 851741-00-9, Antigen TAT125 (human clone DNA232754) 851741-01-0, Antigen TAT149 (human clone DNA234833) 851741-02-1, Antigen TAT231 (human clone DNA268022) 851741-03-2, Antigen TAT104 (human clone DNA236343) 851741-04-3, Antigen TAT141 (human clone DNA236493) 851741-05-4, Antigen TAT102 (human clone DNA236534) 851741-06-5, Antigen TAT109 (human clone DNA246430) 851741-07-6, Antigen TAT142 (human clone DNA247480) 851741-08-7, Antigen TAT106 (human clone DNA264454)
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (amino acid sequence; antibodies and immunotoxins to tumor-associated target polypeptides for diagnosis and treatment)

L16 ANSWER 3 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:122861 CAPLUS
 DOCUMENT NUMBER: 142:214279
 TITLE: Protein and cDNA sequences of a Glycine max 5,10-methylenetetrahydrofolate reductase and use
 INVENTOR(S): Falco, Saverio Carl; Orozco, Emil M.; Famodu, Omolayo O.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 45 pp., Cont.-in-part of U.S. Ser. No. 720,451, abandoned.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005034176	A1	20050210	US 2003-658232	20030908
WO 2000004163	A1	20000127	WO 1999-US15916	19990714 <-
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002102689	A1	20020801	US 2001-903814	20010712
US 6680428	B2	20040120		
US 2004132150	A1	20040708	US 2003-723061	20031126
US 6838276	B2	20050104		
PRIORITY APPLN. INFO.:			US 1998-92869P	P 19980715
			WO 1999-US15916	W 19990714
			US 2000-720451	B2 20001221
			US 1999-351703	B3 19990712
			US 2001-903814	A3 20010712

ED Entered STN: 11 Feb 2005
 AB This invention relates to isolated nucleic acid fragments encoding 5,10-methylenetetrahydrofolate reductase. The invention also relates to the construction of a recombinant DNA construct encoding all or a portion of the 5,10-methylenetetrahydrofolate reductase in sense or antisense orientation, wherein expression of the recombinant DNA construct results in production of altered levels of the 5,10-methylenetetrahydrofolate reductase in a transformed host cell.
 IC ICM A01K067-00
 ICS C07H021-04; C12N009-06
 INCL 800008000; 435191000; 435069100; 435320100; 435325000; 536023200
 CC 7-2 (Enzymes)
 Section cross-reference(s): 3, 10
 IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
 (protein and cDNA sequences of Glycine max 5,10-methylenetetrahydrofolate reductase and use)
 IT 842985-79-9 842985-81-3 842985-83-5 842985-85-7 842985-86-8
 842985-87-9 842985-88-0 842985-89-1 842985-90-4
 RL: PRP (Properties)
 (unclaimed protein sequence; protein and cDNA sequences of a Glycine max 5,10-methylenetetrahydrofolate reductase and use)

L16 ANSWER 4 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:857072 CAPLUS
 DOCUMENT NUMBER: 141:326817
 TITLE: Protein and cDNA sequences of a novel human brain-associated inhibitor of tissue-type plasminogen activator and therapeutic use
 INVENTOR(S): Hastings, Gregg A.; Coleman, Timothy A.; Dillon, Patrick J.; Lawrence, Daniel A.; Sandkvist, Maria; Yepes, Manuel; Wong, Michael K. K.
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA; The American Red Cross
 SOURCE: U.S. Pat. Appl. Publ., 133 pp., Cont.-in-part of U.S. Ser. No. 355,208.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004203101	A1	20041014	US 2004-752041	20040107
US 6008020	A	19991228	US 1997-948997	19971010 <-
US 6191260	B1	20010220	US 1999-348817	19990708
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US 2002165147	A1	20021107	US 2001-987021	20011113
US 2004038880	A1	20040226	US 2003-355208	20030131
PRIORITY APPLN. INFO.:				
		US 1996-28117P	P 19961011	
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		US 1999-123704P	P 19990310	
		US 1999-348817	A3 19990708	
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ED Entered STN: 18 Oct 2004
AB The present invention relates to a novel BAIT protein which is a member of serpin superfamily which is expressed primarily in brain tissue. In particular, isolated nucleic acid mols. are provided encoding the human and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of BAIT activity. Also provided are diagnostic methods for detecting nervous system-related disorders and therapeutic methods for treating nervous system-related disorders. Addnl., the present invention is related to methods of treating patients with BAIT polynucleotides or polypeptides, wherein said patients have had seizures or epilepsy.
IC ICM C07H021-04
ICS C07K014-705
INCL 435069100; 435320100; 435325000; 530350000; 536023500
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 7, 13
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(chimeric, to BAIT; protein and cDNA sequences of novel human brain-associated inhibitor of tissue-type plasminogen activator and therapeutic use)
IT 769650-46-6 769650-47-7 769650-48-8 769650-49-9
RL: PRP (Properties)
(unclaimed protein sequence; protein and cDNA sequences of a novel human brain-associated inhibitor of tissue-type plasminogen activator and therapeutic use)

L16 ANSWER 5 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:162569 CAPLUS
DOCUMENT NUMBER: T40:212061
TITLE: Protein and cDNA sequences for human tumor associated antigenic target proteins, and related compositions and methods for the diagnosis and treatment of tumor
INVENTOR(S): Desauvage, Frederic J.; Frantz, Gretchen; Hillan, Kenneth J.; Polakis, Paul; Polson, Andrew; Smith, Victoria; Spencer, Susan D.; Wu, Thomas D.; Zhang, Zemin
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 319 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016225	A2	20040226	WO 2003-US25892	20030819
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				

Agnes Rooke 10/015,956

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EP 1466977	A1 20041013	EP 2004-7618	19991202
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NZ 523206	A 20041224	NZ 2000-523206	20000211
NZ 523207	A 20041224	NZ 2000-523207	20000211
NZ 517395	A 20040130	NZ 2000-517395	20000309
CA 2481685	AA 20010308	CA 2000-2481685	20000824
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CA 2420193	AA 20020228	CA 2001-2420193	20010823
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EP 1397383	A2 20040317	EP 2001-990229	20011213
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AU 772723	B2 20040506	AU 2002-14769	20020201
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AU 778585	B2 20041209	AU 2002-14753	20020201
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WO 2002101069	A2 20021219	WO 2002-US10513	20020403
WO 2002101069	A3 20030904		
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 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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Agnes Rooke 10/015,956

SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

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PRIORITY APPLN. INFO.:			US 2002-404809P	P 20020819
			US 2002-405645P	P 20020821
			US 2002-413192P	P 20020923
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US 2000-441400	A 20000222
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WO 2003-US36298	A 20031113
US 2004-797366	A1 20040309
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ED Entered STN: 29 Feb 2004

AB The present invention is directed to compns. of matter useful for the diagnosis and treatment of tumor in mammals and to methods of using those compns. of matter for the same. Specifically disclosed are cDNA sequences (total 81) and corresponding encoded tumor associated antigenic target (TAT) proteins (total 77) identified in human.

IC ICM A61K
 CC 3-3 (Biochemical Genetics)
 Section cross-reference(s): 6, 13, 63
 IT Antibodies and Immunoglobulins
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (chimeric, to TAT gene product; protein and cDNA sequences
 for human tumor associated antigenic target proteins, and related compns.
 and methods for diagnosis and treatment of tumor)
 IT 663970-84-1P 663970-85-2P 663970-86-3P 663970-87-4P 663970-88-5P
 663970-89-6P 663970-90-9P 663970-91-0P 663970-92-1P 663970-93-2P
 663970-94-3P 663970-95-4P 663970-96-5P 663970-97-6P 663970-98-7P
 663970-99-8P 663971-00-4P 663971-01-5P 663971-02-6P 663971-03-7P
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 663971-58-2P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; protein and cDNA sequences for human tumor
 associated antigenic target proteins, and related compns. and methods for
 diagnosis and treatment of tumor)

L16 ANSWER 6 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:162508 CAPLUS
 DOCUMENT NUMBER: 140:213583
 TITLE: Use of bacteriophage T4 tail fiber proteins for
 manufacture of nanostructures using staged-assembly
 Goldberg, Edward B.
 INVENTOR(S):
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 60 pp., Cont.-in-part of U.S.
 Ser. No. 136,225.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 9
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004039168	A1	20040226	US 2003-371073	20030221
US 5877279	A	19990302	US 1994-322760	19941013 <--
US 5864013	A	19990126	US 1995-542003	19951012 <--
US 6197139	B1	20010306	US 1999-226949	19990108
US 2003236390	A1	20031225	US 2002-136225	20020429
PRIORITY APPLN. INFO.:				
			US 1994-322760	A2 19941013
			US 1995-542003	A3 19951012
			US 1999-226949	A3 19990108
			US 2002-136225	A2 20020429
			KR 1998-367	A 19980109
			US 1999-236949	A3 19990125

ED Entered STN: 29 Feb 2004
 AB Methods of using the gp34, gp35, gp36, and gp37 tail fiber proteins of bacteriophage T4 or fusion proteins in the formation of nanostructures that can be used in nanostructures is described. In particular, variants of the proteins that show altered patterns of interaction, thermolability of interaction, or geometry of interaction can be used to create an array of self-assembling structures.
 IC ICM C07K014-005
 ICS C12P021-06
 INCL 530350000; 435068100
 CC 9-16 (Biochemical Methods)
 Section cross-reference(s): 6
 IT Fusion proteins (chimeric proteins)
 RL: NUU (Other use, unclassified); USES (Uses)
 (of bacteriophage T4 tail fiber proteins;; use of bacteriophage T4 tail fiber proteins for manufacture of nanostructures using staged-assembly)
 IT 664379-63-9 664379-64-0 664379-65-1 664379-66-2 664379-67-3
 664379-80-0 664379-81-1
 RL: PRP (Properties)
 (unclaimed protein sequence; use of bacteriophage T4 tail fiber proteins for manufacture of nanostructures using staged-assembly)

L16 ANSWER 7 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:759252 CAPLUS
 DOCUMENT NUMBER: 139:275728
 TITLE: Human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers
 INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.
 PATENT ASSIGNEE(S): Genentech, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 396 pp., Cont.-in-part of U.S. Ser. No. 6,867.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 140
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003181669	A1	20030925	US 2002-63570	20020502
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <-
EP 1466977	A1	20041013	EP 2004-7618	19991202
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NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
WO 2000070050	A1	20001123	WO 2000-US7532	20000321 <-
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				

DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

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AU 772723	B2	20040506	AU 2002-14769	20020201
AU 772734	B2	20040506	AU 2002-14771	20020201
AU 778585	B2	20041209	AU 2002-14753	20020201
CA 2449602	AA	20021219	CA 2002-2449602	20020403
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EP 1402260	A2	20040331	EP 2002-731246	20020403
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JP 2005500030	T2	20050106	JP 2003-503819	20020403
US 2003190669	A1	20031009	US 2002-63521	20020501
US 2003191287	A1	20031009	US 2002-63561	20020502
US 2003190716	A1	20031009	US 2002-63617	20020503
US 2003191288	A1	20031009	US 2002-63618	20020503
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US 2003191284	A1	20031009	US 2002-63664	20020507
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US 2003199027	A1	20031023	US 2002-152396	20020520
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PRIORITY APPLN. INFO.:				
			US 1999-397342	A1 19990915
			WO 2000-US7532	A 20000321
			US 2001-870574	A1 20010530
			US 2001-869599	A2 20010629
			US 1997-63564P	P 19971028
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			CA 1999-2344465	A3 19991005
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US 2002-199464	B1 20020719
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US 2004-797366	A1 20040309

ED Entered STN: 29 Sep 2003

AB The present invention is directed to novel PRO polypeptides, and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antisense oligonucleotide probes and antibodies which bind to the polypeptides of the present invention, and to methods for producing the polypeptides of the present invention. The PRO polypeptides, polynucleotides and antibodies are useful for screening of agonists and antagonists, as well as for diagnosis and treatment of PRO protein-associated diseases, such as sports-related joint problems, articular cartilage defects, osteoarthritis, rheumatoid arthritis, diabetes, hyper- or hypoinsulinemia, lung cancer, rectal cancer, melanoma, stomach cancer, and esophageal cancer.

IC ICM C07K016-40

INCL 530388100; 530388150

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 3, 9, 63

IT Antibodies and Immunoglobulins

RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(fusion products; human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers)

IT 604018-54-4P	604018-56-6P	604018-58-8P	604018-60-2P	604018-62-4P
604018-64-6P	604018-66-8P	604018-68-0P	604018-70-4P	604018-72-6P
604018-74-8P	604018-76-0P	604018-78-2P	604018-80-6P	604018-82-8P
604018-84-0P	604018-86-2P	604018-88-4P	604018-90-8P	604018-92-0P
604018-94-2P	604018-96-4P	604018-98-6P	604019-00-3P	604019-02-5P
604019-04-7P	604019-06-9P	604019-08-1P	604019-10-5P	604019-12-7P
604019-14-9P	604019-16-1P	604019-18-3P	604019-20-7P	604019-22-9P
604019-24-1P	604019-26-3P	604019-28-5P	604019-30-9P	604019-32-1P
604019-34-3P	604019-36-5P	604019-38-7P	604019-40-1P	604019-42-3P
604019-44-5P	604019-46-7P	604019-48-9P	604019-50-3P	604019-52-5P
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Protein PRO20110 (human clone DNA166819) 604020-14-6P
 604020-16-8P, Protein PRO20233 (human clone DNA165608)
 604020-18-0P 604020-20-4P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; human PRO polypeptides, polynucleotides, and antibodies for agonist/antagonist screening and diagnosis and treatment of cartilage diseases, diabetes mellitus and cancers)

L16 ANSWER 8 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:590724 CAPLUS

DOCUMENT NUMBER: T39:148487

TITLE: Human cytokine receptor based antagonists and methods of making and using

INVENTOR(S): Stahl, Neil; Yancopoulos, George D.

PATENT ASSIGNEE(S): Regeneron Pharmaceuticals, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 300 pp., Cont.-in-part of U.S. Ser. No. 787,835.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003143697	A1	20030731	US 2002-282162	20021028
US 6927044	B2	20050809		
WO 2000018932	A2	20000406	WO 1999-US22045	19990922 <-
WO 2000018932	A3	20001102		
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CA 2502385	AA	20040513	CA 2003-2502385	20031024
WO 2004039951	A2	20040513	WO 2003-US33718	20031024
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BR 2003015652	A	20050830	BR 2003-15652	20031024
EP 1572967	A2	20050914	EP 2003-779216	20031024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005197293	A1	20050908	US 2005-56730	20050211
US 2005222033	A1	20051006	US 2005-134114	20050520
PRIORITY APPLN. INFO.:			WO 1999-US22045	W 19990922
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WO 2003-US33718	W 20031024

- ED Entered STN: 01 Aug 2003
 AB The present invention provides a fusion polypeptide capable of binding a cytokine to form a nonfunctional complex. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. Fusion proteins of the extracellular domains of cytokine receptors that can bind their cognate cytokines to form nonfunctional complexes are described. The proteins are fusions of the extracellular components of the ligand binding domains and signal transduction domains that are not capable of mediating ligand binding-induced signal transduction. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. The proteins can be used to antagonize cytokines in the treatment of immune disorders. Construction of a number of receptor fusion proteins and their ability to block cytokine function in several *in vitro* and *in vivo* tests is demonstrated.
 IC ICM C12P021-04
 ICS C07H021-04; C12P021-02; C12N005-06; C07K016-46
 INCL 435069700; 435326000; 435320100; 530391100; 536023530
 CC 15-5 (Immunochemistry)
 Section cross-reference(s): 1, 3
 IT Chimeric gene
 Cytokines
 Fusion proteins (chimeric proteins)
 Interleukin 1 receptors
 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (human cytokine receptor based antagonists and methods of making and using)
 IT Molecular association
 (interaction of fusion protein multimer with cytokine; human cytokine receptor based antagonists and methods of making and using)
 IT Self-association
 (of fusion protein; human cytokine receptor based antagonists and methods of making and using)
 IT 569693-02-3P 569693-04-5P 569693-06-7P
 569693-08-9P 569693-10-3P 569693-12-5P
 569693-14-7P 569693-16-9P 569693-18-1P 569693-20-5P 569693-22-7P
 569693-24-9P
 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; human cytokine receptor based antagonists and methods of making and using)
 IT 569705-99-3 569706-00-9 569706-01-0 569706-02-1 569706-03-2
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 569706-10-1 569706-12-3 569706-14-5 569706-16-7 569706-18-9
 569706-20-3 569706-22-5 569706-24-7
 RL: PRP (Properties)
 (unclaimed protein sequence; human cytokine receptor based antagonists and methods of making and using)

L16 ANSWER 9 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:545686 CAPLUS
 DOCUMENT NUMBER: 139:99845
 TITLE: Immunotherapy and diagnosis of tuberculosis
 INVENTOR(S): Reed, Steven G.; Skeiky, Yasir A. W.; Dillon, Davin C.; Campos-Neto, Antonio; Houghton, Raymond; Vedvick,

Thomas S.; Twardzik, Daniel R.; Lodes, Michael J.;
 Hendrickson, Ronald C.
PATENT ASSIGNEE(S): Corixa Corporation, USA
SOURCE: U.S., 220 pp., Cont.-in-part of U.S. Ser. No. 25,197,
 abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9709428	A3	19970717		
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ES 2210392	T3	20040701	ES 1996-933009	19960830
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AU 9927663	A1	19990906	AU 1999-27663	19990217 <--
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	AU 1996-71586	A3 19960930
	US 1997-818111	A 19970313
	US 1997-942341	A 19971001
	US 1997-729622	A 19971011
	US 1998-24753	A 19980218
	US 1998-72596	A 19980505
	US 1998-72967	A 19980505
	US 1998-113952P	P 19981224
	WO 1999-US3268	W 19990217
	US 2002-84843	A3 20020225

ED Entered STN: 17 Jul 2003

AB The authors disclose the characterization of *Mycobacterium tuberculosis* antigens inducing humoral and cellular immune responses. In one example, the antigens are derived from culture filtrates and stimulate interferon- γ production by responding T-cells. In a second example, genomic expression libraries are utilized to screen for reactive antibodies from humans and other animals.

IC ICM A61K039-04

ICS A61K039-00; A61K039-385; C12N001-12; C07H021-04

INCL 424248100; 424185100; 424192100; 424194100; 435253100; 530350000;
536023400; 536023700

CC 15-2 (Immunochemistry)

IT Human

(*Mycobacterium fusion* protein for vaccination against tuberculosis)

IT Antigens

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(Tb38-1, fusion products; in vaccination against tuberculosis)

IT Antigens

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(TbH-4, fusion products; in vaccination against tuberculosis)

IT Antigens

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(TbRa3, fusion products; in vaccination against tuberculosis)

IT DNA sequences

Protein sequences

(for fusion antigen of *Mycobacterium tuberculosis*)

IT Fusion proteins (chimeric proteins)

RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(of *Mycobacterium tuberculosis* antigens for vaccination)

IT Proteins

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (phosphate-binding, 38,000-mol.-weight, fusion products; in vaccination against tuberculosis)

IT Vaccines

(tuberculosis; *Mycobacterium* fusion protein for)

IT 558504-24-8D, fusion protein-containing 558504-25-9D,
 fusion protein-containing 558504-26-0D, fusion
 protein-containing 558504-27-1D, fusion protein-containing
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; in vaccination against tuberculosis)

IT 558547-46-9	558547-47-0	558547-49-2	558547-50-5	558547-51-6
558547-52-7	558547-53-8	558547-54-9	558547-55-0	558547-56-1
558547-57-2	558547-58-3	558547-59-4	558547-60-7	558547-61-8
558547-62-9	558547-63-0	558547-64-1	558547-65-2	558547-66-3
558547-67-4	558547-68-5	558547-69-6	558547-70-9	558547-71-0
558547-72-1	558547-73-2	558547-74-3	558547-75-4	558547-76-5
558547-78-7	558547-80-1	558547-82-3	558547-85-6	558547-87-8
558547-89-0	558547-92-5	558547-93-6	558547-95-8	558547-98-1
558547-99-2	558548-00-8	558548-01-9	558548-02-0	558548-03-1
558548-04-2	558548-09-7	558548-10-0	558548-11-1	558548-12-2
558548-20-2	558548-26-8	558548-27-9	558548-49-5	558548-50-8
558548-51-9	558548-52-0	558548-53-1	558548-59-7	558548-60-0
558548-61-1	558548-62-2	558548-63-3	558548-67-7	
558548-69-9	558548-85-9	558548-86-0	558548-87-1	558548-88-2
558548-89-3	558548-90-6	558548-91-7	558548-92-8	558548-93-9
558548-94-0	558548-95-1	558548-97-3	558549-00-1	558549-07-8
558549-08-9	558549-09-0	558549-10-3	558549-15-8	558549-16-9
558549-17-0	558549-34-1	558549-35-2	558549-36-3	558549-37-4
558549-38-5	558549-39-6	558549-40-9	558549-41-0	558549-42-1
558549-43-2	558549-44-3	558549-47-6	558549-52-3	558549-53-4
558549-54-5	558549-55-6	558549-95-4	558549-96-5	558549-97-6
558549-98-7	558549-99-8	558550-05-3		

RL: PRP (Properties)

(unclaimed protein sequence; immunotherapy and diagnosis of tuberculosis)

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 10 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:435223 CAPLUS

DOCUMENT NUMBER: 139:35094

TITLE: Cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses

INVENTOR(S): Stahl, Neil; Yancopoulos, George D.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 225 pp., Cont.-in-part of U.S. Ser. No. 935,868, abandoned.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2003104567	A1	20030605	US 2002-287035	20021101

US 2002012962	A1	20020131	US 1999-313942	19990519
US 6472179	B2	20021029		
WO 2000018932	A2	20000406	WO 1999-US22045	19990922 <--
WO 2000018932	A3	20001102		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1229047	A2	20020807	EP 2002-7831	19990922
EP 1229047	A3	20021002		
EP 1229047	B1	20041124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
EP 1405915	A1	20040407	EP 2003-24727	19990922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
HK 1045847	A1	20050324	HK 2002-107225	20010808
US 2002164690	A1	20021107	US 2001-935868	20010823
PRIORITY APPLN. INFO.:				
US 1998-101858P P 19980925				
US 1999-313942 A2 19990519				
WO 1999-US22045 W 19990922				
US 2001-787835 A2 20010322				
US 2001-935868 B2 20010823				
EP 1999-952942 A3 19990922				
HK 2001-105497 A 20010808				

ED Entered STN: 06 Jun 2003

AB The present invention provides a fusion polypeptide that forms a multimer that is capable of binding a cytokine to form a nonfunctional complex. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. Fusion proteins of the extracellular domains of cytokine receptors that can bind their cognate cytokines to form nonfunctional complexes are described. The proteins are fusions of the extracellular components of the ligand binding domains and signal transduction domains that are not capable of mediating ligand binding-induced signal transduction. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. The proteins can be used to antagonize cytokines in the treatment of immune disorders. Construction of a number of receptor fusion proteins and their ability to block cytokine function in several in vitro and in vivo tests is demonstrated.

IC ICM C12P021-02

ICS C12N005-06; C07K014-715; C07K016-24; C07H021-04

INCL 435069100; 435320100; 435325000; 530388250; 530350000; 536023500

CC 15-5 (Immunochemistry)

Section cross-reference(s): 1, 3

ST cytokine antagonist receptor fusion protein; interleukin receptor fusion protein antagonist

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)

(IL1RAP (interleukin 1 receptor accessory protein), fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(IgG1, fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(IgG4, fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Human
Molecular cloning
(cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin 1
Interleukin 13
Interleukin 4
Interleukin 6
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Chimeric gene
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Cytokines
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT DNA sequences
(encoding cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Ciliary neurotrophic factor
Cytokine receptors
Interleukin 2 receptors
Interleukin 4 receptors
Interleukin 6 receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(heavy chain, fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(interleukin 13, fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Protein sequences

(of cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin 1 receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(type I, fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-73-7P, Interleukin 2 receptor (human clone Trap424 subunit γ)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor)
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their SEQ ID NO: therapeutic uses)

IT 540547-41-9P, Interleukin 13 receptor (human clone Trap933 subunit $\alpha 1$)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-43-1P, Interleukin 4 receptor (human clone Trap943 subunit α)
fusion protein with interleukin 13 receptor (human subunit $\alpha 1$)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-45-3P, Interleukin 13 receptor (human clone Trap1126 subunit $\alpha 1$)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-47-5P, Interleukin 4 receptor (human clone Trap1128 subunit α)
fusion protein with interleukin 13 receptor (human subunit $\alpha 1$)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-49-7P, Interleukin 13 receptor (human clone Trap1130 subunit $\alpha 1$)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-51-1P, Interleukin 4 receptor (human clone Trap1132 subunit α)
fusion protein with interleukin 13 receptor (human subunit $\alpha 1$)
fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-53-3P, Interleukin 4 receptor (human clone Trap1199 subunit α)
fusion protein with interleukin 13 receptor (human subunit $\alpha 1$)
fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-55-5P, Interleukin 13 receptor (human clone Trap1244 subunit $\alpha 1$)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-57-7P, Interleukin 4 receptor (human clone Trap1245 subunit α)
fusion protein with interleukin 13 receptor (human subunit $\alpha 1$)
fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-59-9P, Interleukin 13 receptor (human clone Trap1246 subunit $\alpha 1$)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-61-3P, Interleukin 13 receptor (human clone Trap1244-B subunit $\alpha 1$)
fusion protein with interleukin 4 receptor (human subunit α)
fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-63-5P, Interleukin 4 receptor (human clone Trap1245-B subunit α)
fusion protein with interleukin 13 receptor (human subunit $\alpha 1$)
fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-65-7P, Interleukin 13 receptor (human clone

Trap1246-B subunit α) fusion protein with interleukin 4 receptor (human subunit α) fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-67-9P, Interleukin 4 receptor (human clone Trap1268 subunit α) fusion protein with interleukin 13 receptor (human subunit α) fusion protein with immunoglobulin G4 (human heavy chain constant region precursor) 540547-69-1P, Interleukin 4 receptor (human clone Trap subunit α) fusion protein with interleukin 13 receptor (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-71-5P, Interleukin 13 receptor (human clone Trap subunit α) fusion protein with interleukin 4 receptor (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-75-9P, Interleukin 2 receptor (human clone Trap603 subunit γ) fusion protein with interleukin 4 receptor (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-77-1P, Interleukin 2 receptor (human clone Trap622 subunit γ) fusion protein with interleukin 4 receptor (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region precursor) 540547-79-3P, Interleukin 6 receptor (human clone Trap412 subunit α) fusion protein with interleukin 6 receptor-associated glycoprotein gp130 (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region) 540547-81-7P, Interleukin 6 receptor (human clone Trap616 subunit α) fusion protein with interleukin 6 receptor-associated glycoprotein gp130 (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region) 540547-83-9P, Interleukin 1 receptor accessory protein IL1RAP (human clone Trap569) fusion protein with type I interleukin 1 receptor (human) fusion protein with immunoglobulin G1 (human heavy chain constant region) 540547-84-0P, Interleukin 6 receptor-associated glycoprotein gp130 (human) fusion protein with immunoglobulin G1 (human heavy chain constant region) 540547-85-1P, Interleukin 6 receptor (human subunit α) fusion protein with immunoglobulin G1 (human heavy chain constant region) 540547-86-2P, Interleukin 6 receptor-associated glycoprotein gp130 (human) fusion protein with immunoglobulin G1 (human γ 1-chain constant region) 540547-87-3P, Interleukin 6 receptor-associated glycoprotein gp130 (human clone gp130 Δ 3fibro) fusion protein with immunoglobulin G1 (human fragment)

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-40-8P, DNA (human clone Trap933 interleukin 13 receptor subunit α 1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-42-0P, DNA (human clone Trap943 interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α 1 fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-44-2P, DNA (human clone Trap1126 interleukin 13 receptor subunit α 1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-46-4P, DNA (human clone Trap1128 interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α 1 fusion protein with human immunoglobulin G1 heavy chain constant region-specifying)

540547-48-6P, DNA (human clone Trap1130 interleukin 13 receptor subunit α_1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-50-0P, DNA (human clone Trap1132 interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α_1 fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-52-2P, DNA (human clone Trap1199 interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α_1 fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-54-4P, DNA (human clone Trap1244 interleukin 13 receptor subunit α_1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-56-6P, DNA (human clone Trap1245 interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α_1 fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-58-8P, DNA (human clone Trap1246 interleukin 13 receptor subunit α_1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-60-2P, DNA (human clone Trap1244-B interleukin 13 receptor subunit α_1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-62-4P, DNA (human clone Trap1245-B interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α_1 fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-64-6P, DNA (human clone Trap1246-B interleukin 13 receptor subunit α_1 fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-66-8P, DNA (human clone Trap1268 interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α_1 fusion protein with human immunoglobulin G4 heavy chain constant region-specifying) 540547-68-0P, DNA (human clone Trap interleukin 4 receptor subunit α fusion product with interleukin 13 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-70-4P, DNA (human clone Trap interleukin 13 receptor subunit α fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-72-6P, DNA (human clone Trap424 interleukin 2 receptor subunit γ fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-74-8P, DNA (human clone Trap603 interleukin 2 receptor subunit γ fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-76-0P, DNA (human clone Trap622 interleukin 2 receptor subunit γ fusion product with interleukin 4 receptor subunit α fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-78-2P, DNA (human clone Trap412 interleukin 6 receptor subunit α fusion product with interleukin 6 receptor-associated glycoprotein gp130 fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-80-6P, DNA (human clone Trap616 interleukin 6 receptor subunit α fusion product with interleukin 6 receptor-associated glycoprotein gp130 fusion protein with human immunoglobulin G1 heavy chain constant region-specifying) 540547-82-8P, DNA (human interleukin 6

receptor accessory protein IL1RAP fusion product with type I interleukin 1 receptor fusion protein with human immunoglobulin G1 heavy chain constant region-specifying)
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (nucleotide sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-88-4
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 540547-90-8 540547-91-9
 RL: PRP (Properties)
 (unclaimed protein sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 540466-29-3 540466-30-6 540466-31-7 540466-32-8 540547-89-5
 540547-92-0 540547-93-1 540547-94-2
 RL: PRP (Properties)
 (unclaimed sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

L16 ANSWER 11 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:300527 CAPLUS
 DOCUMENT NUMBER: 138:315797
 TITLE: Methods for generating carboxymethylcellulase variants with improved properties by random mutagenesis and catalytic polypeptide library display
 INVENTOR(S): Pan, Jae-Gu; Jung, Heung-Chae; Kim, Yong-Sung
 PATENT ASSIGNEE(S): S. Korea
 SOURCE: U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 395,881, abandoned.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003073109	A1	20030417	US 2002-185990	20020628
KR 2000060418	A	20001016	KR 1999-8677	19990315 <-
PRIORITY APPLN. INFO.:			KR 1999-8677	A 19990315
			US 1999-395881	B2 19990914

ED Entered STN: 18 Apr 2003
 AB The present invention relates to a high throughput screening method for preparing a variant of catalytic polypeptide capable of catalyzing a chemical reaction. The method of selecting a bacterium comprising a nucleic acid sequence encoding a polypeptide capable of catalyzing a chemical reaction from a library of candidate bacteria. The method comprises generating of a pool of nucleic acids by introducing at least one nucleotide change into the target nucleic acids encoding the polypeptide capable of catalyzing the desired chemical reaction and constructing library vectors to be transformed into a host cell after subcloning said pool of candidate nucleic acids into a surface display vector. The resulting vectors direct expression of fusion polypeptides of display motifs and candidate polypeptides and said fusion polypeptides are to be anchored to the surface of said bacteria. Each fusion polypeptides expressed on the surface of host bacteria is selected which expresses a desired polypeptide on the basis of said host bacterial phenotypic changes, or visual changes

of said products.

IC ICM C12Q001-68
 ICS C12N015-74; C12N001-21
 INCL 435006000; 435252300; 435471000
 CC 3-1 (Biochemical Genetics)
 Section cross-reference(s): 7

IT Chimeric gene
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (encoding fusion proteins of display motifs; methods for generating carboxymethylcellulase variants with improved properties by random mutagenesis and catalytic polypeptide library display)

IT 511353-69-8 511353-70-1
 RL: PRP (Properties)
 (unclaimed protein sequence; methods for generating carboxymethylcellulase variants with improved properties by random mutagenesis and catalytic polypeptide library display)

L16 ANSWER 12 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:77536 CAPLUS
 DOCUMENT NUMBER: 138:132249
 TITLE: Skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use
 INVENTOR(S): Watson, James D.; Strachan, Lorna; Sleeman, Matthew; Onrust, Rene; Murison, James G.; Kumble, Krishanand D.
 PATENT ASSIGNEE(S): Genesis Research and Development Corporation Limited, N. Z.
 SOURCE: U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of U.S. Ser. No. 866,050.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003022835	A1	20030130	US 2002-152661	20020520
US 6150502	A	20001121	US 1998-188930	19981109 <-
WO 9955865	A1	19991104	WO 1999-NZ51	19990429 <-
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6573095	B1	20030603	US 1999-312283	19990514
US 2003040471	A1	20030227	US 2001-866050	20010524
PRIORITY APPLN. INFO.:			US 1998-69726	B2 19980429
			US 1998-188930	A2 19981109
			WO 1999-NZ51	W 19990429
			US 1999-312283	A2 19990514
			US 2000-206650P	P 20000524
			US 2000-221232P	P 20000725
			US 2001-866050	A2 20010524

ED Entered STN: 31 Jan 2003

AB Isolated polynucleotides encoding polypeptides expressed in mammalian skin

cells are provided, together with expression vectors and host cells comprising such isolated polynucleotides. Thus, cDNA sequences are obtained by high-throughput screening of cDNA expression libraries constructed from dermal papilla cells from rat hair vibrissae, keratinocytes from human neonatal foreskin, human neonatal fibroblasts, mouse embryonic skin, and mouse stem cells (KSCL), transit amplifying (TRAM) cells, and human small airway epithelial cells. Murine and human TR1 polypeptides from such libraries are demonstrated to stimulate keratinocyte growth and mobility, inhibit the growth of epithelial-derived cancer cells, and play a role in angiogenesis and vascularization in tumors. Addnl., human and mouse KS1, which have similarity to CXC chemokines, are also isolated and demonstrated to promote cell growth, induce an oxidative burst in human peripheral blood mononuclear cells and migration in the human monocyte leukemia cell line. Thus, such polynucleotides and polypeptides may be developed as agents for the healing of wounds, angiogenesis, and regulators of epithelial-derived cancers.

IC	ICM A61K038-17				
	ICS C12P021-02; C12N005-06; C07H021-04; C07K014-435				
INCL	514012000; 530350000; 536023500; 435069100; 435320100; 435325000				
CC	3-3 (Biochemical Genetics)				
	Section cross-reference(s): 1, 6, 13				
IT	Fusion proteins (chimeric proteins)				
	RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(of skin-associated proteins; skin associated proteins isolated from human and rodent, their cDNAs and therapeutic use)				
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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; skin associated proteins isolated from human and
rodent, their cDNAs and therapeutic use)

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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
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(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; skin associated proteins isolated from human and
rodent, their cDNAs and therapeutic use)

L16 ANSWER 13 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
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DOCUMENT NUMBER: 138:132245
TITLE: Secreted and transmembrane proteins of human and cDNAs
encoding them and their uses
INVENTOR(S): Baker, Kevin P.; Beresini, Maureen; Deforge, Laura;
Desnoyers, Luc; Fivaroff, Ellen; Gao, Wei-qiang;
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J.; Gurney, Austin L.; Sherwood, Steven; Smith,
Victoria; Stewart, Timothy A.; Tumas, Daniel;
Watanabe, Colin K.; Wood, William I.; Zhang, Zemin
PATENT ASSIGNEE(S): Genentech, Inc., USA
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ED Entered STN: 31 Jan 2003

AB Proteins that have features typical of secreted or transmembrane proteins are identified and cDNAs encoding them are cloned and characterized. Many of the genes show altered levels of expression in tumors and may be of diagnostic or therapeutic use. Some of the proteins are shown to interact with one another and the presence or absence or modulation of the interaction may be of diagnostic or therapeutic use (no data). Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the

present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IC ICM G01N033-53
 ICS C07H021-04; C12N009-00; A61K038-17; C12P021-02; C12N005-06;
 C07K014-435; C07K016-40
 INCL 435007100; 435069100; 435183000; 435325000; 435320100; 530350000;
 514012000; 530388100; 536023200
 CC 3-3 (Biochemical Genetics)
 Section cross-reference(s): 1, 6, 13
 IT Epitopes
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 secreted and transmembrane proteins of human and cDNAs encoding them)
 IT Antibodies and Immunoglobulins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (fusion products, with secreted or transmembrane products;
 secreted and transmembrane proteins of human and cDNAs encoding them)
 IT Fusion proteins (chimeric proteins)
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (secreted and transmembrane proteins of human and cDNAs encoding them)
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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; secreted and transmembrane proteins of human and
cDNAs encoding them)

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ACCESSION NUMBER: 2003-23521 CAPLUS

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Audrey; Godowski, Paul J.; Grimaldi, Christopher;
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PATENT ASSIGNEE(S): Genentech, Inc., USA

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ED Entered STN: 10 Jan 2003

AB The authors disclose the cloning, differential tissue expression, ligand specificity, and biol. activities for polypeptides and nucleic acids having sequence homol. with those for human interleukin-17 and IL-17 receptors.

IC ICM A61K038-17
ICS C07H021-04; C12N009-00; C07K014-435; C12P021-02; C12N005-06

INCL 514012000; 435183000; 530350000; 536023100; 435069100; 435325000; 435320100

CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 2, 3, 8

IT Fusion proteins (chimeric proteins)
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(of human interleukin-17 and IL-17 receptor homologs)

IT 483383-92-2P 483383-94-4P 483383-96-6P 483383-98-8P 483384-00-5P
483384-02-7P 483384-04-9P 483384-06-1P 483384-08-3P
RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cloning, recombinant expression, and biol. activities for human interleukin-17 and IL-17 receptor homologs)

L16 ANSWER 15 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:23361 CAPLUS
DOCUMENT NUMBER: 138:88641
TITLE: Mycobacterium vaccae antigens for treating immunologically mediated skin disorders
INVENTOR(S): Watson, James D.; Tan, Paul L. J.; Prestidge, Ross
PATENT ASSIGNEE(S): N. Z.
SOURCE: U.S. Pat. Appl. Publ., 122 pp., Cont.-in-part of U.S. 6,328,978.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5968524	A	19991019	US 1997-997080	19971223 <-
US 6328978	B1	20011211	US 1999-324542	19990602
IN 188709	A	20021026	IN 2000-CA231	20000419
PRIORITY APPLN. INFO.:			US 1997-997080	A2 19971223
			US 1999-324542	A2 19990602
			IN 1998-CA242	A 19980216

ED Entered STN: 10 Jan 2003
AB Methods for the treatment of skin disorders, including psoriasis, atopic dermatitis, allergic contact dermatitis, alopecia areata, skin cancers, and related disorders, such as psoriatic arthritis are provided, such methods comprising administering a composition having antigenic and/or adjuvant properties. Compns. which may be usefully employed in the inventive methods include inactivated M. vaccae cells, delipidated and deglycolipidated M. vaccae cells, M. vaccae culture filtrate and compds. present in or derived therefrom, together with combinations of such compns.
IC ICM A61K039-00
ICS A61K039-38

INCL 424184100
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 63
 IT Fusion proteins (chimeric proteins)
 Gene, microbial
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
 IT 204442-79-5P 482676-55-1P 482676-56-2P 482676-57-3P 482676-58-4P
 482676-59-5P 482676-61-9P 482676-63-1P, Antigen pota (Mycobacterium vaccae) 482676-65-3P, Antigen potd (Mycobacterium vaccae) 482676-67-5P
 482676-72-2P, Antigen GV-27A (Mycobacterium vaccae) 482676-74-4P
 482676-77-7P 482676-78-8P 482676-80-2P 482676-84-6P 482676-86-8P,
 Antigen GV-35 (Mycobacterium vaccae) 482676-88-0P 482676-91-5P
 482676-92-6P 482676-95-9P 482676-99-3P 482677-00-9P 482677-04-3P,
 Antigen GV-40 (Mycobacterium vaccae) 482677-07-6P, Antigen GV-9 (Mycobacterium vaccae) 482678-83-1P, Antigen 85A (Mycobacterium vaccae)
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 482679-11-8P, Antigen GV-27 (Mycobacterium vaccae) 482679-12-9P
 482679-15-2P, Antigen GV-24B (Mycobacterium vaccae) 482679-16-3P,
 Antigen GV-38B (Mycobacterium vaccae) 482679-17-4P, Antigen GV-41 (Mycobacterium vaccae) 482679-18-5P, Antigen GV-42 (Mycobacterium vaccae) 482679-19-6P, Antigen GV-45 (Mycobacterium vaccae)
 482679-21-0P, Antigen GV-33 (Mycobacterium vaccae)
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; Mycobacterium vaccae antigens for treating immunol. mediated skin disorders)
 IT 482711-77-3 482711-78-4 482711-79-5 482711-80-8 482711-81-9
 482711-82-0 482711-83-1 482711-84-2 482711-85-3 482711-86-4
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 482711-97-7 482712-06-1 482712-08-3 482712-15-2
 RL: PRP (Properties)
 (unclaimed protein sequence; mycobacterium vaccae antigens for treating immunol. mediated skin disorders)

L16 ANSWER 16 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:5348 CAPLUS
 DOCUMENT NUMBER: 138:71922
 TITLE: Human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses
 INVENTOR(S): Chen, Jian; Filvaroff, Ellen; Fong, Sherman; Goddard, Audrey; Godowski, Paul; Grimaldi, Christopher; Gurney, Austin; Li, Hanzhong; Hillan, Kenneth; Tumas, Daniel; Vanlookeren, Menno; Vandlen, Richard; Watanabe, Colin; Williams, P. Mickey; Wood, William I.; Yansura, Daniel Genentech, Inc., USA
 PATENT ASSIGNEE(S):
 SOURCE: U.S. Pat. Appl. Publ., 129 pp., Cont.-in-part of U. S. Ser. No. 311,832.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 140

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R: AT, BE, CH, IE, SI, LT, CY	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, LV, FI, RO, MK, AL, TR			
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ED Entered STN: 03 Jan 2003

AB The present invention is directed to 9 novel human polypeptides having sequence similarity with interleukin 17 (IL-17), IL-17 receptors, and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. Further provided herein are methods for treating degenerative cartilaginous disorders and other inflammatory diseases.

IC ICM C12Q001-68

ICS C12P021-02; C07H021-04; C12N005-06; A61K038-20

INCL 435069500; 435325000; 435320100; 435006000; 530351000; 424085200; 536023500

CC 15-5 (Immunochemistry)

Section cross-reference(s): 3, 63

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (fragments, Fc, fusion products; human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

IT Epitopes

(fusion products; human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

IT Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (human interleukin 17-homologous polypeptides and polynucleotides and their therapeutic uses)

IT 479746-80-0P 479746-82-2P 479746-84-4P 479746-86-6P 479746-88-8P 479746-90-2P 479746-92-4P 479746-94-6P 479746-96-8P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL

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(Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human interleukin 17-homologous polypeptides and
polynucleotides and their therapeutic uses)

L16 ANSWER 17 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:928139 CAPLUS
DOCUMENT NUMBER: 138-23676
TITLE: Interleukin-17 and IL-17 receptor homologs for therapy
INVENTOR(S): Chen, Jian; Filvaroff, Ellen; Fong, Sherman; French,
Dorothy; Goddard, Audrey; Godowski, Paul J.; Grimaldi,
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Menno; Vandlen, Richard; Watanabe, Colin K.; Williams,
P. Mickey; Wood, William I.; Yansura, Daniel G.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 161 pp., Cont.-in-part of U. S.
Ser. No. 931,836.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

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US 2003065159	A1	20030403	US 2002-196757	20020716
US 2003068710	A1	20030410	US 2002-196761	20020716
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US 2003104548	A1	20030605	US 2002-197706	20020717
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US 2003068720	A1	20030410	US 2002-198763	20020718
US 2003068722	A1	20030410	US 2002-199301	20020718
US 2003068729	A1	20030410	US 2002-199460	20020718
US 2003068732	A1	20030410	US 2002-199673	20020718
US 2003207398	A1	20031106	US 2002-198759	20020718
US 2003215910	A1	20031120	US 2002-199463	20020718
US 2003068719	A1	20030410	US 2002-198762	20020719
US 2003068724	A1	20030410	US 2002-199312	20020719
US 2003180881	A1	20030925	US 2002-202475	20020723
US 2003064462	A1	20030403	US 2002-206919	20020726
US 2003064463	A1	20030403	US 2002-206922	20020726
US 2003068756	A1	20030410	US 2002-206912	20020726
US 2003068759	A1	20030410	US 2002-206920	20020726
US 2003068760	A1	20030410	US 2002-206921	20020726
US 2003073183	A1	20030417	US 2002-206917	20020726
US 2003096359	A1	20030522	US 2002-205910	20020726
US 2004048334	A1	20040311	US 2002-205890	20020726
US 2003068765	A1	20030410	US 2002-207916	20020729
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US 2003068769	A1	20030410	US 2002-207920	20020729
US 2003068773	A1	20030410	US 2002-208023	20020729
US 2003068774	A1	20030410	US 2002-208026	20020729
US 2003073184	A1	20030417	US 2002-207923	20020729

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US 2003073185	A1	20030417	US 2002-207924	20020729
US 2003215912	A1	20031120	US 2002-207915	20020729
US 2004048335	A1	20040311	US 2002-208024	20020729
US 2003069407	A1	20030410	US 2002-232232	20020829
US 2003120056	A1	20030626	US 2002-289498	20021105
US 2003144498	A1	20030731	US 2002-289527	20021105
US 2004249141	A1	20041209	US 2002-289490	20021105
US 2003224984	A1	20031204	US 2002-305654	20021126
US 2004043397	A1	20040304	US 2003-408385	20030407
US 2003199044	A1	20031023	US 2003-410552	20030408
US 2004258710	A1	20041223	US 2004-791618	20040302
US 2005019823	A1	20050127	US 2004-931886	20040831
US 2005153396	A1	20050714	US 2004-955952	20040929
US 2005153348	A1	20050714	US 2004-20604	20041221
US 2005176041	A1	20050811	US 2004-26279	20041230
US 2005214819	A1	20050929	US 2005-30464	20050105
US 2005164266	A1	20050728	US 2005-36582	20050113
US 2005170396	A1	20050804	US 2005-36869	20050114
US 2005202475	A1	20050915	US 2005-38328	20050118
US 2005176046	A1	20050811	US 2005-46650	20050128
US 2005170458	A1	20050804	US 2005-50154	20050202
US 2005176104	A1	20050811	US 2005-52503	20050204
US 2005136515	A1	20050623	US 2005-56802	20050211
US 2005136475	A1	20050623	US 2005-60652	20050216
JP 2005224245	A2	20050825	JP 2005-54646	20050228
US 2005158830	A1	20050721	US 2005-80062	20050314
JP 2005245460	A2	20050915	JP 2005-118817	20050415
JP 2005253468	A2	20050922	JP 2005-118579	20050415
JP 2005253469	A2	20050922	JP 2005-118701	20050415
JP 2005261437	A2	20050929	JP 2005-119030	20050415
JP 2005270107	A2	20051006	JP 2005-118968	20050415
US 2005214846	A1	20050929	US 2005-117757	20050427
PRIORITY APPLN. INFO.:			US 1999-311832	A2 19990514
			US 1999-380138	A2 19990825
			US 1999-380142	B2 19990825
			US 1999-172096P	P 19991223
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			US 2000-644848	A2 20000822
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CA 2000-2380355	A3 20000824
JP 2001-520864	A3 20000824
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US	2001-880457	A	20010612
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US	2002-197708	A1	20020717
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US	2002-211858	A1	20020802
US	2004-797366	A1	20040309
JP	2005-54646	A3	20050228

ED Entered STN: 06 Dec 2002

AB The authors disclose the cloning, differential tissue expression, ligand specificity, and biol. activities for polypeptides and nucleic acids having sequence homol. with those for human interleukin-17 and IL-17 receptors.

IC ICM C07K014-715

ICS C07H021-04; C12P021-02; C12N005-06

INCL 435069100; 435325000; 435320100; 530350000; 536023500

CC 15-5 (Immunochemistry)

Section cross-reference(s): 1, 2, 3, 8

IT Fusion proteins (chimeric proteins)

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(of human interleukin-17 and IL-17 receptor homologs)

IT 477913-88-5P 477913-90-9P 477913-92-1P 477913-94-3P 477913-96-5P

477913-98-7P 477914-00-4P 477914-02-6P 477914-04-8P

RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; cloning, recombinant expression, and biol. activities for human interleukin-17 and IL-17 receptor homologs)

L16 ANSWER 18 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:850231 CAPLUS
 DOCUMENT NUMBER: 137:368593
 TITLE: Cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses
 INVENTOR(S): Stahl, Neil
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 187 pp., Cont.-in-part of U. S. Ser. No. 787,835.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002164690	A1	20021107	US 2001-935868	20010823
US 2002012962	A1	20020131	US 1999-313942	19990519
US 6472179	B2	20021029		
WO 2000018932	A2	20000406	WO 1999-US22045	19990922 <--
WO 2000018932	A3	20001102		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1229047	A2	20020807	EP 2002-7831	19990922
EP 1229047	A3	20021002		
EP 1229047	B1	20041124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
EP 1405915	A1	20040407	EP 2003-24727	19990922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
HK 1045847	A1	20050324	HK 2002-107225	20010808
US 2003104567	A1	20030605	US 2002-287035	20021101
PRIORITY APPLN. INFO.:			US 1998-101858P	P 19980925
			US 1999-313942	A2 19990519
			WO 1999-US22045	W 19990922
			US 2001-787835	A2 20010322
			EP 1999-952942	A3 19990922
			HK 2001-105497	A 20010808
			US 2001-935868	B2 20010823

ED Entered STN: 08 Nov 2002
 AB Fusion proteins of the extracellular domains of cytokine receptors that can bind their cognate cytokines to form nonfunctional complexes are described. The proteins are fusions of the extracellular components of the ligand binding domains and signal transduction domains that are not capable of mediating ligand binding-induced signal transduction. It also provides a nucleic acid sequence encoding the fusion polypeptide and methods of making and uses for the fusion polypeptide. The proteins can be used to antagonize cytokines in the treatment of immune disorders. Construction of a number of receptor fusion proteins and their ability to block cytokine function in several in vitro and in vivo tests is demonstrated.
 IC ICM C12P021-02

INCL ICS C07H021-04; C12N009-99; C12N005-06; C07K016-24
INCL 435069100
CC 15-5 (Immunochemistry)
Section cross-reference(s): 1, 3
ST cytokine antagonist receptor fusion protein
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(IgG1, fusion products, with cytokine receptors; cytokine
receptor fusion proteins acting as cytokine antagonists and
their therapeutic uses)
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(IgG4, fusion products, with cytokine receptors; cytokine
receptor fusion proteins acting as cytokine antagonists and
their therapeutic uses)
IT Interleukin 1
Interleukin 13
Interleukin 4
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(antagonists of; cytokine receptor fusion proteins acting as
cytokine antagonists and their therapeutic uses)
IT Cytokines
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(antagonists; cytokine receptor fusion proteins acting as
cytokine antagonists and their therapeutic uses)
IT Ciliary neurotrophic factor
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(as cell-specific interleukin antagonist; cytokine receptor
fusion proteins acting as cytokine antagonists and their
therapeutic uses)
IT Human
(cytokine receptor fusion proteins acting as cytokine
antagonists and their therapeutic uses)
IT Interleukin receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(cytokine receptor fusion proteins acting as cytokine
antagonists and their therapeutic uses)
IT Chimeric gene, animal
RL: BSU (Biological study, unclassified); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(for cytokine receptor fusion proteins; cytokine receptor
fusion proteins acting as cytokine antagonists and their
therapeutic uses)
IT cDNA sequences
(for interleukin receptor fusion proteins; cytokine receptor
fusion proteins acting as cytokine antagonists and their
therapeutic uses)
IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(fusion products, with cytokine receptors; cytokine receptor
fusion proteins acting as cytokine antagonists and their
therapeutic uses)
IT Interleukin 3 receptors
Interleukin 4 receptors

IT Interleukin 6 receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Cytokine receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(heavy chain, fusion products with cytokine receptors; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin receptors
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interleukin 13, fusion products; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(light chain, fusion products with cytokine receptors; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Protein sequences
(of interleukin receptor fusion proteins; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT Interleukin 6 receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(receptor-associated glycoprotein gp130, ciliary neurotrophic factor binding to; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 475125-31-6 475125-33-8 475125-35-0 475125-37-2 475125-39-4
475125-41-8 475125-43-0 475125-45-2 475125-47-4 475125-49-6
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 475125-30-5 475125-32-7 475125-34-9 475125-36-1 475125-38-3
475125-40-7 475125-42-9 475125-44-1 475125-46-3 475125-48-5
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 475126-62-6
RL: PRP (Properties)
(unclaimed nucleotide sequence; cytokine receptor fusion proteins acting as cytokine antagonists and their therapeutic uses)

IT 475126-50-2 475126-51-3 475126-52-4 475126-53-5 475126-54-6
475126-55-7 475126-56-8 475126-57-9 475126-58-0 475126-59-1
475126-60-4 475126-61-5 475126-63-7 475126-64-8 475126-65-9
475126-66-0 475126-67-1 475126-68-2 475126-69-3
475126-70-6 475126-71-7
RL: PRP (Properties)
(unclaimed sequence; cytokine receptor fusion proteins acting

Agnes Rooke 10/015,956

as cytokine antagonists and their therapeutic uses)

L16 ANSWER 19 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:658583 CAPLUS
DOCUMENT NUMBER: T37-2T2014
TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues
INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 400 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 140
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CA 2303834	AA	19990325	CA 1998-2303834	19980916 <--
JP 2002238586	A2	20020827	JP 2001-385205	19980916
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EP 1466977	A1	20041013	EP 2004-7618	19991202
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NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
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ZA 2000005703	A	20011011	ZA 2000-5703	20001016
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US 1998-89538P	P 19980617
US 1998-89598P	P 19980617
US 1998-89599P	P 19980617
US 1998-89600P	P 19980617
US 1998-89801P	P 19980618
US 1998-89947P	P 19980619
US 1998-90676P	P 19980625
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US 1998-91010P	P 19980626
US 1998-91359P	P 19980701
US 1998-91982P	P 19980707
US 1998-95916P	P 19980810
US 1998-95929P	P 19980810
US 1998-96143P	P 19980811

Agnes Rooke 10/015, 956

US 1998-96146P	P	19980811
US 1998-96329P	P	19980812
US 1998-96766P	P	19980817
US 1998-96768P	P	19980817
US 1998-96773P	P	19980817
US 1998-96791P	P	19980817
US 1998-96867P	P	19980817
US 1998-96891P	P	19980817
US 1998-96894P	P	19980817
US 1998-96895P	P	19980817
US 1998-96897P	P	19980817
US 1998-96950P	P	19980818
US 1998-96960P	P	19980818
US 1998-97022P	P	19980818
US 1998-97141P	P	19980819
US 1998-97218P	P	19980820
US 1998-97661P	P	19980824
US 1998-97952P	P	19980826
US 1998-97955P	P	19980826
US 1998-97974P	P	19980826
US 1998-97978P	P	19980826
US 1998-97986P	P	19980826
US 1998-98014P	P	19980826
US 1998-98525P	P	19980831
US 1998-99803P	P	19980910
US 1998-100038P	P	19980911
AU 1998-93881	A3	19980914
US 1998-100262P	P	19980914
JP 2000-511867	A3	19980916
US 1998-100634P	P	19980916
US 1998-100858P	P	19980917
AU 1998-93178	A3	19981002
US 1998-104080P	P	19981013
US 1998-105169P	P	19981022
US 1998-63561P	P	19981028
US 1998-109304P	P	19981120
US 1998-216021	B1	19981216
US 1998-113296P	P	19981222
US 1998-218517	B1	19981222
US 1998-113621P	P	19981223
US 1999-254311	A1	19990303
WO 1999-US5028	W	19990308
US 1999-123957P	P	19990312
US 1999-126773P	P	19990329
US 1999-130232P	P	19990421
US 1999-131022P	P	19990426
US 1999-131293P	P	19990427
US 1999-131445P	P	19990428
US 1999-134287P	P	19990514
US 1999-311832	A1	19990514
WO 1999-US10733	W	19990514
WO 1999-US12252	W	19990602
US 1999-139557P	P	19990616
US 1999-141037P	P	19990623
US 1999-142680P	P	19990707
US 1999-143048P	P	19990707
US 1999-144758P	P	19990720
US 1999-145698P	P	19990726
US 1999-146222P	A1	19990728
US 1999-149395P	P	19990817

ED Entered STN: 30 Aug 2002
 AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 84 cDNA clones encoding secreted or transmembrane proteins in human tissues were identified by extracellular domain homol. screening, amylase screening, and/or signal algorithm anal. Biol. activities exhibited by certain of the proteins include, induction of c-fos in pericytes, stimulated release of proteoglycans from cartilage, modulated glucose or free fatty acid uptake in skeletal muscle, and stimulated TNF- α release in human blood. Differential tissue expression in tumor vs. normal tissues is also demonstrated. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.
 IC ICM C12Q001-68
 ICS G01N033-53; C07H021-04; A61K038-43; C12N009-00; C12P021-02;
 C12N005-06; C07K014-435
 INCL 424094100
 CC 3-3 (Biochemical Genetics)
 Section cross-reference(s): 1, 6, 9, 13
 IT Antibodies and Immunoglobulins
 RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (fusion products; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)
 IT Fusion proteins (chimeric proteins)
 RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (with epitope tags or Fc region of Ig; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)
 IT 454487-82-2P 454487-84-4P 454487-86-6P 454487-88-8P 454487-90-2P
 454487-92-4P 454487-94-6P 454487-96-8P 454487-98-0P 454488-00-7P
 454488-02-9P 454488-04-1P 454488-06-3P 454488-08-5P 454488-10-9P
 454488-12-1P 454488-14-3P 454488-16-5P 454488-18-7P 454488-20-1P
 454488-22-3P 454488-24-5P 454488-26-7P 454488-28-9P 454488-30-3P
 454488-32-5P 454488-34-7P 454488-36-9P 454488-38-1P 454488-40-5P
 454488-42-7P 454488-44-9P 454488-46-1P 454488-48-3P 454488-50-7P
 454488-52-9P 454488-54-1P 454488-56-3P 454488-58-5P 454488-60-9P
 454488-62-1P 454488-64-3P 454488-66-5P 454488-68-7P 454488-70-1P
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 454489-02-2P 454489-04-4P 454489-06-6P 454489-08-8P 454489-10-2P
 454489-12-4P 454489-14-6P 454489-16-8P 454489-18-0P 454489-20-4P
 454489-22-6P 454489-24-8P 454489-26-0P 454489-28-2P 454489-30-6P
 454489-32-8P 454489-34-0P 454489-36-2P 454489-38-4P 454489-40-8P
 454489-42-0P 454489-44-2P 454489-46-4P 454489-48-6P
 RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

L16 ANSWER 20 OF 125 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:575645 CAPLUS
 DOCUMENT NUMBER: 137:136066
 TITLE: Genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses

INVENTOR(S): Cunningham, Francis X.; Sun, Zairen
 PATENT ASSIGNEE(S): University of Maryland, USA
 SOURCE: U.S. Pat. Appl. Publ., 85 pp., Cont.-in-part of U.S.
 Ser. No. 88,725, abandoned.
 CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002102631	A1	20020801	US 1999-323998	19990602
US 6642021	B2	20031104		
US 5744341	A	19980428	US 1996-624125	19960329 <--
US 6524811	B1	20030225	US 1997-937155	19970925
PRIORITY APPLN. INFO.:			US 1996-624125	A3 19960329
			US 1997-937155	A2 19970925
			US 1998-88724	B2 19980602
			US 1998-88725	B2 19980602

ED Entered STN: 02 Aug 2002
 AB Nucleic acid sequences encoding ϵ -cyclase, isopentenyl pyrophosphate isomerase and β -carotene hydroxylase as well as vectors containing the same and hosts transformed with the vectors. Methods for controlling the ratio of various carotenoids in a host and for the production of novel carotenoid pigments. The present invention also provides a method for screening for eukaryotic genes encoding carotenoid biosynthesis, and for modifying the disclosed enzymes.
 IC ICM C12P023-00
 INCL 435067000
 CC 3-2 (Biochemical Genetics)
 Section cross-reference(s): 5, 7, 10, 11
 IT Fusion proteins (chimeric proteins)
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)
 IT 444389-14-4 444389-16-6 444389-17-7 444389-40-6
 RL: PRP (Properties)
 (Unclaimed; genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)
 IT 444388-54-9 444388-56-1 444388-58-3, Cyclase, lycopene
 ϵ - (potato) 444388-59-4 444388-60-7
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)
 IT 444389-21-3 444389-36-0 444389-37-1 444389-39-3
 RL: PRP (Properties)
 (unclaimed sequence; genes for enzymes of carotenoid biosynthesis and metabolism of bacteria and plants and their uses)

L20 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1990:403490 CAPLUS
 DOCUMENT NUMBER: 113:3490
 TITLE: Control of calcium carbonate crystallization by polyanionic-hydrophobic polypeptides

AUTHOR(S): Sikes, C. Steven; Wheeler, A. P.
 CORPORATE SOURCE: Dep. Biol. Sci., Univ. South Alabama, Mobile, AL,
 36688, USA
 SOURCE: Chem. Aspects Regul. Miner., Proc. Symp. Div. Ind.
 Eng. Chem. Am. Chem. Soc. (1988), Meeting
 Date 1987, 15-20. Editor(s): Sikes, C. Steven;
 Wheeler, A. P. Univ. South Ala. Publ. Serv.: Mobile,
 Ala.
 CODEN: 56SWAP
 DOCUMENT TYPE: Conference
 LANGUAGE: English
 ED Entered STN: 06 Jul 1990
 AB Oyster shell matrix and other protein inhibitors of crystal formation have polyanionic and hydrophobic domains, often at sep. ends of the mols. The polyanion-hydrophobe (PAH) hypothesis states that the polyanionic region adsorbs to the mineral surface, stopping mineral formation there, and the hydrophobic region extends from the surface, disrupting diffusion of lattice ions to the surface. An evaluation of the PAH hypothesis by using synthetic peptides composed of polyaspartate and polyalanine regions demonstrated that a hydrophobic terminus did in fact enhance inhibition of CaCO₃ crystallization by the peptides. The primary effect was on crystal nucleation rather than crystal growth. A polyaspartate mol. of 40 residues appeared to be the optimal size for inhibition of crystal nucleation. Ordered copolymers of Gly-Asp, Ser-Asp, and Gly-Ser-Asp were not very effective inhibitors of crystallization
 CC 12-6 (Nonmammalian Biochemistry)
 Section cross-reference(s): 75
 IT Oyster
 (calcium carbonate crystallization inhibition by protein of matrix of shell
 of,
 polyanionic-hydrophobic domains in relation to)
 IT Peptides, properties
 RL: PRP (Properties)
 (crystallization of calcium carbonate inhibition by, polyanionic
 -hydrophobic domains in relation to)
 IT Crystal growth
 Crystal nucleation
 (of calcium carbonate, peptide inhibition of, polyanionic
 -hydrophobic domains in relation to)
 IT Molecular structure-biological activity relationship
 (mineralization-inhibiting, of peptides, polyanionic
 -hydrophobic domains in relation to)
 IT Phosphoproteins
 RL: BIOL (Biological study)
 (shell matrix-associated, RP-1, calcium carbonate crystallization
 inhibition by,
 polyanionic-hydrophobic domains in relation to)
 IT 25608-40-6 26063-13-8 123690-43-7 123690-44-8 123690-45-9
 123690-46-0 123690-48-2 124219-00-7 127317-46-8 127317-47-9
 127317-48-0 127317-49-1 127317-50-4 127317-51-5 127317-52-6
 127317-53-7 127317-54-8 127317-55-9 127317-56-0 127317-57-1
 127317-58-2 127463-32-5 127463-36-9
 RL: BIOL (Biological study)
 (calcium carbonate crystallization inhibition by, polyanionic
 -hydrophobic domains in relation to)
 IT 471-34-1, Calcium carbonate, biological studies
 RL: BIOL (Biological study)
 (crystallization of, peptide inhibition of, polyanionic-hydrophobic
 domains in)

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INVENTOR Search

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(FILE 'CAPLUS' ENTERED AT 12:47:33 ON 19 DEC 2005)
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FILE 'REGISTRY' ENTERED AT 12:54:27 ON 19 DEC 2005

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ACT AGNESCL1/A

L1 251 SEA ABB=ON PLU=ON (AG) {5-8}/SQSP

ACT AGNESCL1B/A

L2 25163 SEA ABB=ON PLU=ON (AG) {1-8}EG/SQSP

ACT AGNESCL57A/A

L3 1622 SEA ABB=ON PLU=ON (AG) {1-8}PDG/SQSP

ACT AGNESCL57B/A

L4 29037 SEA ABB=ON PLU=ON (AG) {1-8}DG/SQSP

FILE 'CAPLUS' ENTERED AT 12:55:21 ON 19 DEC 2005

E TIRRELL D/AU

L5 409 SEA ABB=ON PLU=ON TIRRELL D?/AU

L6 246899 SEA ABB=ON PLU=ON PROTEIN SEQUENC?/OBI

L7 13 SEA ABB=ON PLU=ON L5 AND L6

L8 172739 SEA ABB=ON PLU=ON FUSION/OBI OR CHIMER?/OBI

L9 4411 SEA ABB=ON PLU=ON POLYCATION?/OBI OR POLYANION?/OBI

L10 7 SEA ABB=ON PLU=ON L5 AND L8

L11 2 SEA ABB=ON PLU=ON L5 AND L9

D TI 1-2

D SCAN

L12 22 SEA ABB=ON PLU=ON L7 OR L10 OR L11

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2
DICTIONARY FILE UPDATES: 18 DEC 2005 HIGHEST RN 870123-57-2

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* available and contains the CA role and document type information. *
*

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FILE CAPLUS

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FILE LAST UPDATED: 18 Dec 2005 (20051218/ED)

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=> d que 112
L5      409 SEA FILE=CAPLUS ABB=ON PLU=ON TIRRELL D?/AU
L6      246899 SEA FILE=CAPLUS ABB=ON PLU=ON PROTEIN SEQUENC?/OBI
L7      13 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L6
L8      172739 SEA FILE=CAPLUS ABB=ON PLU=ON FUSION/OBI OR CHIMER?/OBI
L9      4411 SEA FILE=CAPLUS ABB=ON PLU=ON POLYCATION?/OBI OR POLYANION?/O
                  BI
L10     7 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L8
L11     2 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L9
L12     22 SEA FILE=CAPLUS ABB=ON PLU=ON L7 OR L10 OR L11
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y
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L12 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:1242590 CAPLUS
TITLE: Modulating pH-sensitive binding using non-natural
       amino acids
INVENTOR(S): Datta, Deepshikha; Goddard, William A.; Tirrell,
              David; Peng, Joyce Yaochun
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 42 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005260711	A1	20051124	US 2005-94625 US 2004-557541P	20050330 P 20040330

PRIORITY APPLN. INFO.:
ED Entered STN: 25 Nov 2005
AB The invention provides methods, systems and reagents for regulating pH-sensitive protein interaction by incorporating non-natural amino acids into the protein (e.g. an antibody, or its functional fragment, derivative, etc.). The invention also relates to specific uses in regulating pH-sensitive binding of antibodies to tumor site, by conferring enhanced tumor-specificity/selectivity. In that embodiment, the non-natural amino acids preferably have desirable side-chain pKa's, such that at below physiol. pH (e.g. about pH 6.3-6.5) the non-natural amino acid confer enhanced binding to tumor antigens in acidic environments. Such non-natural amino acids can be incorporated by any suitable means, such as by utilizing a modified aminoacyl-tRNA synthetase to charge the nonstandard amino acid to a modified tRNA, which forms strict Watson-Crick base-pairing with a codon that normally forms wobble base-pairing with natural tRNAs (e.g. the degenerate codon orthogonal system).
IC ICM C12P021-06
ICS C07H021-04; C07K016-44; C12N005-06
INCL 435069100; 435320100; 435326000; 530387300; 536023530
CC 6-3 (General Biochemistry)
IT 870019-05-9 870019-06-0
RL: PRP (Properties)
(unclaimed protein sequence; modulating
pH-sensitive binding using non-natural amino acids)

L12 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:732520 CAPLUS
DOCUMENT NUMBER: 143:216572
TITLE: Synthetic proteins for use in the development of lenses for treatment of disorders of optical tissues
INVENTOR(S): Tirrell, David A.; Schwartz, Daniel M.; Nowatzki, Paul J.; Grubbs, Robert H.
PATENT ASSIGNEE(S): California Institute of Technology, USA; The Regents of The University of California-San Francisco
SOURCE: PCT Int. Appl., 75 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005072223	A2	20050811	WO 2005-US1773	20050121
WO 2005072223	A3	20050909		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

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US 2005196427 A1 20050908 US 2005-40130 20050121
PRIORITY APPLN. INFO.: US 2004-538844P P 20040123
US 2004-552029P P 20040310

ED Entered STN: 12 Aug 2005
AB Synthetic proteins that can be used to form lenses for use as overlays on the eyes to treat vision problems are described. These proteins include fibronectin domains, including RGD domains, and elastin domains. They may be crosslinked to form a lens that is free of impurities, well-tolerated, transparent, and permeable to small mols. They bind to other proteins and allow corneal tissue to bind and colonize them and so can protect tissue while it is healing. They may be used in contact lenses and corneal onlays and inlays. The proteins were manufactured by expression of the corresponding gene in Escherichia coli and were purified by use of a removable hexahistidine tag. Onlays were formed by crosslinking the protein with bis(sulfosuccinimidyl)suberate in molds. These onlays were used to cover abraded patches on the cornea of rabbits. Corneal epithelium colonized the onlay and showed a normal development and complete coverage within a week. Inflammation was present, but at low levels.

IC ICM C12N

CC 63-3 (Pharmaceuticals)

Section cross-reference(s): 3, 14

IT Protein sequences

(of synthetic protein for optical devices; synthetic proteins for use in development of lenses for treatment of disorders of optical tissues)

IT 862235-30-1 862235-31-2 862235-32-3 862235-33-4 862235-34-5
862235-35-6 862235-36-7 862235-37-8 862235-38-9 862235-39-0
862235-40-3 862235-41-4 862235-42-5 862235-43-6 862235-44-7
862235-45-8 862235-46-9

RL: PRP (Properties)

(unclaimed protein sequence; synthetic proteins for use in the development of lenses for treatment of disorders of optical tissues)

L12 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:559603 CAPLUS

DOCUMENT NUMBER: ~~143:225181~~

TITLE: Artificial Polypeptide Scaffold for Protein Immobilization

AUTHOR(S): Zhang, Kechun; Diehl, Michael R.; Tirrell, David A.

CORPORATE SOURCE: Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 91125, USA

SOURCE: Journal of the American Chemical Society (2005), 127(29), 10136-10137

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 29 Jun 2005

AB An artificial polypeptide scaffold composed of surface anchor and protein capture domains was designed and expressed in vivo. By using a mutant E. coli phenylalanyl-tRNA synthetase, the photoreactive amino acid para-azidophenylalanine was incorporated into the surface anchor domain. Octyltrichlorosilane-treated surfaces were functionalized with this polypeptide by spin coating and photocrosslinking. The resulting protein films were shown to immobilize recombinant proteins through association of coiled coil heterodimer.

CC 9-1 (Biochemical Methods)

IT Proteins
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (green fluorescent, fusion protein with leucine zipper tag; artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

IT Fusion proteins (chimeric proteins)
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (leucine zipper-containing; artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

IT 50812-37-8DP, Glutathione S-transferase, fusion protein with leucine zipper tag
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

IT 5283-66-9D, Octyltrichlorosilane, glass substrate conjugates with polypeptide scaffold and 862917-16-6D, leucine zipper tag, fusion proteins with
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (artificial polypeptide scaffold-conjugated glass substrates for protein immobilization)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:905679 CAPLUS
 DOCUMENT NUMBER: 1417391547
 TITLE: Method for stabilization of proteins using non-natural amino acids
 INVENTOR(S): Tirrell, David A.; Tang, Yi
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: U.S. Pat. Appl. Publ., 28 pp., Cont. of U.S. Ser. No. 620,691, abandoned.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004214988	A1	20041028	US 2004-851564	20040521
PRIORITY APPLN. INFO.:			US 2000-191640P	P 20000323
			US 2000-620691	B1 20000720

ED Entered STN: 29 Oct 2004
 AB The present invention provides a method for producing modified stable polypeptides introducing at least one non-natural amino acid into the hydrophobic region of the polypeptide. The thermal and chemical stability of such polypeptides is improved compared to those properties of its corresponding wild type proteins. The invention further provides purified

leucine zipper and coiled-coil proteins in which the leucine residues have been replaced with 5,5,5-trifluoroleucines, and the modified proteins so produced demonstrate increased thermal and chemical stability compared to their corresponding wild-type natural proteins.

IC ICM C07K014-47
INCL 530324000
CC 9-16 (Biochemical Methods)
Section cross-reference(s): 16
IT 787250-72-0 787250-73-1
RL: PRP (Properties)
(unclaimed protein sequence; method for
stabilization of proteins using non-natural amino acids)

L12 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:573765 CAPLUS
DOCUMENT NUMBER: 141:327798
TITLE: Coiled-coil peptide-based assembly of gold nanoparticles
AUTHOR(S): Stevens, Molly M.; Flynn, Nolan T.; Wang, Chun;
Tirrell, David A.; Langer, Robert
CORPORATE SOURCE: Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA
SOURCE: Advanced Materials (Weinheim, Germany) (2004), 16(11), 915-918
CODEN: ADVMEW; ISSN: 0935-9648
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 19 Jul 2004
AB In this report, the specific biomol. recognition between artificial leucine zipper-like peptides was used to assemble gold nanoparticles. The proposed approach for nanoparticle assembly is shown to be extremely versatile due to the ability to easily engineer a variety of peptide sequences with different stabilities and structures for specific applications. In addition, this method offers the unique ability to dynamically control the size and optical properties of the generated assemblies under mild conditions of pH and may be of interest for future bioengineering and medical applications.
CC 9-1 (Biochemical Methods)
IT Circular dichroism spectroscopy
Nanoparticles
Protein sequences
Self-assembly
UV and visible spectroscopy
(coiled-coil peptide-based assembly of gold nanoparticles)
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:402748 CAPLUS
DOCUMENT NUMBER: 140:387555
TITLE: Photoresponsive bioelastomeric polypeptides which display inverse temperature transitions and are useful in transducing light energy with a change in hydrophobicity or polarity
INVENTOR(S): Urry, Dan W.; Tirrell, David A.; Heimbach, Catherine Jean
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 34 pp., Cont. of U.S. Ser. No. 32,373.

CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003166840	A1	20030904	US 2001-759947	20010112
US 5900405	A	19990504	US 1995-487594	19950607
WO 9723729	A1	19970703	WO 1996-US9776	19960607
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE EP 830509 EP 830509 R: DE, FR, GB JP 11508274			EP 1996-921441	19960607
PRIORITY APPLN. INFO.:	T2	19990721	JP 1996-519202 US 1994-187441 US 1995-485426 US 1998-32373 US 1995-487594 WO 1996-US9776	B3 19940124 B1 19950607 B1 19980227 A 19950607 W 19960607

ED Entered STN: 19 May 2004

AB A bioelastomeric composition is provided that expands or contracts upon a change in exposure to light energy that comprises a protein or protein-based polymeric material having an inverse temperature transition in the

range of liquid water. At least a fraction of the monomers in the polymer contain an light energy-responsive group that undergoes a change in hydrophobicity or polarity upon a change in exposure to light energy and is present in an amount sufficient to provide a shift in the inverse temperature

transition of the polymer upon the change in exposure to light energy. Compsns. of the invention, including those further containing a side-chain chemical couple, can be used in a variety of different applications to produce mech. work, cause turbidity changes, cause chemical changes in an enclosed environment, or transduce other free energies by varying the exposure to light energy on the composition. The degree and efficiency of mech. or chemical change can be controlled by, inter alia, selection of the type, amount, position, and mole fraction of the light energy-responsive side chain group and hydrophobic residues in the polymer. Thus, a copolyptide comprising poly[0.68(VPGVG), 0.32(VPGEG)] coupled via the glutamic acid residues to phenylazoaniline displays cis-trans isomerization on irradiation at 350 nm, and an inverse temperature transition sensitive to the configuration of the azobenzene chromophore: .apprx.32° for the trans form and .apprx.42° for the cis form when buffered at pH 4.1. Reversible photomodulation of the transition is achieved isothermally at 40°. Addnl. copolyptides derivatized cinnamic acid, cinnamaldehyde, or spiropyran display inverse temperature transition responsive to irradiation with light in the visible,

UV, or

IR ranges.

IC ICM C07K016-00

INCL 530350000; 430269000

CC 6-3 (General Biochemistry)

Section cross-reference(s): 34, 36

IT 685927-75-7 685927-76-8 685927-77-9 685927-78-0

RL: PRP (Properties)

(unclaimed protein sequence; photoresponsive

bioelastomeric polypeptides which display inverse temperature transitions

and

are useful in transducing light energy with a change in hydrophobicity or polarity)

L12 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:114360 CAPLUS
DOCUMENT NUMBER: 138:343770
TITLE: Mechanical Properties of Artificial Protein Matrixes Engineered for Control of Cell and Tissue Behavior
AUTHOR(S): Di Zio, Kathleen; Tirrell, David A.
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Macromolecules (2003), 36(5), 1553-1558
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 14 Feb 2003
AB Genetic engineering methods were used for the preparation of artificial proteins containing sequences designed to reproduce essential features of the extracellular matrix (ECM). The long-term objective of the work is to develop matrixes for use in the engineering of small-diameter vascular grafts. The CS5 domain of fibronectin provides binding sites for vascular endothelial cells, while an elastin-like repeat, [(VPGIG)2(VPGKG)(VPGIG)2], controls the mech. properties and includes sites for covalent crosslinking. Bis(sulfosuccinimidyl) suberate and disuccinimidyl suberate were used to crosslink artificial ECM protein films for uniaxial tensile testing. Variation in the amount of crosslinker and protein weight fraction allowed preparation of films with Young's moduli ranging from 0.07 to 0.97 MPa. The weight fraction of protein in the hydrated, crosslinked films was measured to be between 0.2 and 0.4; the mol. weight between crosslinks (M_c) varied from 3000 to 38,000. The moduli and M_c of the films span the ranges reported for natural elastins.
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 3
IT Biological materials
Extracellular matrix
Molecular cloning
Protein sequences
Stress-strain relationship
Young's modulus
(mech. properties of artificial protein matrixes engineered for control of cell and tissue behavior)
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:490824 CAPLUS
DOCUMENT NUMBER: 133:125284
TITLE: Genetic engineering for production of block-copolymer reversible hydrogels
INVENTOR(S): Petka, Wendy A.; Tirrell, David A.; McGrath, Kevin P.
PATENT ASSIGNEE(S): University of Massachusetts, USA
SOURCE: U.S., 53 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Agnes Rooke 10/015,956

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6090911	A	20000718	US 1997-956307 US 1997-956307	19971022 19971022
PRIORITY APPLN. INFO.:				
ED	Entered STN:	20 Jul 2000		
AB	The invention is based on the discovery that a block copolymer that includes α -helical blocks, e.g., terminal blocks, which form intermol. coiled-coil structures, and one or more random-coil blocks, which link the α -helical blocks, can form suspensions that can reversibly gel to form monodisperse hydrogels. The transition between the gel and liquid phases depends on pH, temperature, concentration, and chemical structure.			
	The copolymers can be synthesized biol. through genetic engineering.			
IC	ICM	C07K014-00		
	ICS	A61K031-74; A61K038-00		
INCL	530300000			
CC	63-6 (Pharmaceuticals)			
	Section cross-reference(s): 3			
IT	Fibroblast			
	Genetic engineering			
	Molecular cloning			
	Plasmid vectors			
	Protein sequences			
	Wound healing promoters			
	α -Helix			
	(genetic engineering for production of block-copolymer reversible hydrogels)			
IT	213390-97-7	213390-98-8	284059-97-8	284060-00-0
	284474-36-8			284474-27-7
	RL: PRP (Properties)			
	(unclaimed protein sequence; genetic engineering for production of block-copolymer reversible hydrogels)			
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L12 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:83679 CAPLUS
DOCUMENT NUMBER: 132:241880
TITLE: Engineering the Extracellular Matrix: A Novel Approach to Polymeric Biomaterials. I. Control of the Physical Properties of Artificial Protein Matrices Designed to Support Adhesion of Vascular Endothelial Cells
AUTHOR(S): Welsh, Eric R.; Tirrell, David A.
CORPORATE SOURCE: Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Biomacromolecules (2000), 1(1), 23-30
CODEN: BOMAF6; ISSN: 1525-7797
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 04 Feb 2000
AB Methods of genetic engineering were applied to the design and biosynthesis of three extracellular matrix protein analogs constructed from identical elastin- and fibronectin-derived repeating units but characterized by different mol. wts. in the range of 14 000 to 59 000. Expression levels were enhanced by the serendipitous choice of an N-terminal fusion sequence such that gram-scale syntheses were achieved for each protein. Purification protocols were developed that resulted in proteins of high purity and correct sequence, as determined by amino acid anal., NMR spectroscopy, and lower critical solution temperature (LCST). Glutaraldehyde was shown to insolubilize

the otherwise soluble proteins in a concentration-dependent manner. Tensile moduli

of cross-linked protein films were measured and found to be inversely related to the mol. wts. of the engineered proteins, which in each case corresponds to the theor. mol. weight between cross-links. At the highest cross-link d. (lowest mol. weight) the elastic modulus was similar to that of native elastin.

CC 63-7 (Pharmaceuticals)

IT Biological materials

Cell adhesion

Extracellular matrix

Molecular cloning

Protein sequences

cDNA sequences

(cloning of extracellular matrix elastin and fibronectin for adhesion of vascular endothelium)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999;780851 CAPLUS

DOCUMENT NUMBER: 132:133867

TITLE: pH-Induced Fusion and Lysis of

Phosphatidylcholine Vesicles by the Hydrophobic
Polyelectrolyte Poly(2-ethylacrylic Acid)

AUTHOR(S): Linhardt, Jeffrey G.; Tirrell, David A.

CORPORATE SOURCE: Polymer Science and Engineering Department, University
of Massachusetts, Amherst, MA, 01003, USA

SOURCE: Langmuir (2000), 16(1), 122-127

CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 10 Dec 1999

AB Poly(2-ethylacrylic acid) [PEAA] was shown to induce fusion of phosphatidylcholine bilayer membranes under mildly acidic conditions. The pH-dependent destabilization and fusion of extruded large unilamellar vesicles (LUVs) by PEAA was characterized by optical d. measurements, TEM, and lipid-mixing and contents-release assays. Reduction of either the chain length or the polymer concentration caused the fusion and contents-release events

to shift to lower pH values. Release of entrapped calcein was observed at pH values approx. 1 unit higher than those found to cause membrane fusion.

Decreased levels of fusion were observed when the concentration of PEAA was lower

than that of the lipid; however, quant. release of encapsulated calcein could be effected at very low polymer concns. (.apprx.3% weight/weight PEAA/lipid).

CC 6-6 (General Biochemistry)

ST membranes fusion polyethylacrylate calcein

IT Bilayer membranes

Fusion, biological

(pH-induced fusion and lysis of phosphatidylcholine vesicles by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid))

IT 9003-01-4, Polyacrylic acid 25087-26-7, Polymethacrylic acid 25722-70-7D, Polyglycidol, succinylated 62607-09-4, Polyethacrylic acid RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(pH-induced fusion and lysis of phosphatidylcholine vesicles by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid))

IT 1461-15-0, Calcein
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
 (Biological study); PROC (Process)
 (pH-induced fusion and lysis of phosphatidylcholine vesicles
 by the hydrophobic polyelectrolyte poly(2-ethylacrylic acid))
 REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1999:708802 CAPLUS
 DOCUMENT NUMBER: 131:341998
 TITLE: Polyanionic polymers which enhance fusogenicity
 INVENTOR(S): Chen, Tao; He, Yuehua; Cullis, Peter; Madden, Thomas;
 Scherrer, Peter; Kim, Jung Soo; Tirrell, David
 ; Joshi, Phalgun
 PATENT ASSIGNEE(S): Inex Pharmaceuticals Corporation, Can.
 SOURCE: PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955743	A1	19991104	WO 1999-US9076	19990427
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9937640	A1	19991116	AU 1999-37640	19990427
EP 1100834	A1	20010523	EP 1999-920057	19990427
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			US 1998-83294P	P 19980428
			WO 1999-US9076	W 19990427

ED Entered STN: 05 Nov 1999
 AB The present invention relates generally to the amphiphilic
 polyelectrolyte, poly(2-ethylacrylic acid) (PEAA) and covalently bonded
 lipids to generate Lipo-PEAA. These Lipo-PEAA are then used to make
 pH-sensitive liposomes which become unstable, permeable or fusogenic with
 certain pH changes. In addition, this invention generally describes methods
 for delivering therapeutic compds. and drugs to target cells by
 administering to a host the pH-sensitive liposomes of the present
 invention. Pyrene-labeled PEAA was prepared and treated with 1-decyllamine
 to the a lipo-PEAA. Examples of other acrylate polymer derivs. were given
 as well as liposomes formulation with lipo-PEAA.
 IC ICM C08F008-32
 ICS C08F008-34; A61K009-127
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 35
 IT Drug delivery systems
 (liposomes; polyanionic polymers which enhance fusogenicity)
 IT Detergents

(polyanionic polymers which enhance fusogenicity)
IT Lipids, biological studies
Peptides, biological studies
Phosphatidylcholines, biological studies
Phospholipids, biological studies
Proteins, general, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polanionic polymers which enhance fusogenicity)
IT Polyoxyalkylenes, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polanionic polymers which enhance fusogenicity)
IT 57-88-5, Cholesterol, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polanionic polymers which enhance fusogenicity)
IT 530-48-3, 1,1-Diphenylethylene 3586-58-1, 2-Ethylacrylic acid
4390-96-9, 2-Ethylacryloyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(polanionic polymers which enhance fusogenicity)
IT 85316-33-2P, 1,1-Diphenylpropyllithium 219506-75-9P, Benzyl
2-ethylacrylate 249924-76-3P 249924-77-4P 249924-78-5P
249924-79-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(polanionic polymers which enhance fusogenicity)
IT 2016-57-1DP, 1-Decanamine, reaction products with poly(ethylacrylic acid)-pyrene derivative 62607-09-4DP, Poly(2-ethylacrylic acid), lipids derivs. 78377-23-8DP, 1-DiazomethylPyrene, reaction products with poly(ethylacrylic acid)
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(polanionic polymers which enhance fusogenicity)
IT 2644-64-6, Dipalmitoylphosphatidylcholine 4539-70-2,
Distearoylphosphatidylcholine 18656-38-7, Dimyristoylphosphatidylcholine 18656-40-1, Dilauroylphosphatidylcholine 25322-68-3 68737-67-7
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polanionic polymers which enhance fusogenicity)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:211204 CAPLUS
DOCUMENT NUMBER: 131:35758
TITLE: Functionalized liposomes for use in drug delivery: pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)
AUTHOR(S): Linhardt, Jeffrey G.; Tirrell, David A.
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(1), 310-311
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 05 Apr 1999
AB Solvent fractionation was effective in reducing the polydispersity of a

poly(2-ethylacrylic acid) (PEAA) sample obtained from a bulk free radical polymerization The effects of mol. weight and polydispersity on the conformation

collapse of PEAA in solution were demonstrated. PEAA has also been shown to cause pH-dependent fusion of liposomes. A lipid mixing fusion assay was used to confirm the fusion data obtained by electron microscopy. Calcein release was used to determine that the membrane becomes permeable to encapsulated materials 0.4 pH units higher than where fusion occurs.

CC 63-5 (Pharmaceuticals)

ST liposome fusion lysis phosphatidylcholine polyethylacrylate

IT Drug delivery systems

(liposomes; pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

IT Dissolution rate

(pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

IT Phosphatidylcholines, biological studies

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

IT 62607-09-4, Poly(2-ethylacrylic acid)

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid))

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:211164 CAPLUS

DOCUMENT NUMBER: 131:23375

TITLE: Functionalized liposomes for use in drug delivery: pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)

AUTHOR(S): Linhardt, Jeffrey G.; Tirrell, David A.

CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(1), 236-237

CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 05 Apr 1999

AB Solvent fractionation was effective in reducing the polydispersity of a poly(2-ethylacrylic acid) (PEAA) sample obtained from a bulk free radical polymerization The effects of mol. weight and polydispersity on the conformational

collapse of PEAA in solution were demonstrated. PEAA caused pH-dependent fusion of liposomes. A lipid mixing fusion assay was used to confirm the fusion data obtained by electron microscopy. Calcein release was used to determine that the membrane becomes permeable to encapsulated materials 0.4 pH units higher than where fusion occurs.

CC 63-5 (Pharmaceuticals)

IT Drug delivery systems

(liposomes; pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in

functionalized liposomes for drug delivery)
IT Dissolution rate
(pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in functionalized liposomes for drug delivery)
IT Phosphatidylcholines, biological studies
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in functionalized liposomes for drug delivery)
IT 62607-09-4P, Poly(2-ethylacrylic acid)
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid) in functionalized liposomes for drug delivery)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:146328 CAPLUS
TITLE: Functionalized liposomes for use in drug delivery: pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)
AUTHOR(S): Linhardt, Jeffrey G.; Tirrell, David A.
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), POLY-292. American Chemical Society: Washington, D. C.
CODEN: 67GHA6
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
ED Entered STN: 08 Mar 1999
AB Poly(2-ethylacrylic acid) [PEAA] is a pH dependent membrane permeabilizing agent and can be utilized in developing responsive liposomes for targeted drug delivery. The pH dependent interactions of PEAA with phosphatidylcholine membranes has been studied and pH induced fusion was observed. Furthermore, the effects of mol. weight and polydispersity of PEAA on its conformational collapse, fusion, and lysis properties will be described.

L12 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:146206 CAPLUS
TITLE: Functionalized liposomes for use in drug delivery: pH dependent fusion and lysis of phosphatidylcholine vesicles by poly(2-ethylacrylic acid)
AUTHOR(S): Linhardt, Jeffrey G.; Tirrell, David A.
CORPORATE SOURCE: Polymer Science and Engineering Department, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), POLY-170. American Chemical Society: Washington, D. C.
CODEN: 67GHA6
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
ED Entered STN: 08 Mar 1999

AB Poly(2-ethylacrylic acid) [PEAA] is a pH dependent membrane permeabilizing agent and can be utilized in developing responsive liposomes for targeted drug delivery. The pH dependent interactions of PEAA with phosphatidylcholine membranes has been studied and pH induced fusion was observed. Furthermore, the effects of mol. weight and polydispersity of PEAA on its conformational collapse, fusion, and lysis properties will be described.

L12 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1998:472390 CAPLUS
 DOCUMENT NUMBER: 129:256614
 TITLE: Reversible hydrogels from self-assembling artificial proteins
 AUTHOR(S): Petka, Wendy A.; Hardin, James L.; McGrath, Kevin P.; Wirtz, Denis; Tirrell, David A.
 CORPORATE SOURCE: Dep. Polymer Sci. Eng., Univ. Massachusetts, Amherst, MA, 01003, USA
 SOURCE: Science (Washington, D. C.) (1998), 281(5375), 389-392
 CODEN: SCIEAS; ISSN: 0036-8075
 PUBLISHER: American Association for the Advancement of Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English

ED Entered STN: 30 Jul 1998

AB Recombinant DNA methods were used to create artificial proteins that undergo reversible gelation in response to changes in pH or temperature. The proteins consist of terminal leucine zipper domains flanking a central, flexible, water-soluble polyelectrolyte segment. Formation of coiled-coil aggregates of the terminal domains in near-neutral aqueous solns. triggers formation of a three-dimensional polymer network, with the polyelectrolyte segment retaining solvent and preventing precipitation of the chain.

Dissociation of the coiled-coil aggregates through elevation of pH or temperature causes dissolv. of the gel and a return to the viscous behavior that is characteristic of polymer solns. The mild conditions under which gel formation can be controlled (near-neutral pH and near-ambient temperature) suggest that these materials have potential in bioengineering applications requiring encapsulation or controlled release of mol. and cellular species.

CC 6-3 (General Biochemistry)
 Section cross-reference(s): 35

IT Gelation
 Hydrogels
 Protein sequences
 Self-assembly

(reversible hydrogels from self-assembling artificial proteins)

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:6587 CAPLUS
 DOCUMENT NUMBER: 124:118185
 TITLE: Periodic proteins containing electroactive substituents: synthesis and electrochemical characterization
 AUTHOR(S): Beecher, Jody E.; Kothakota, Srinivas; Fournier, Maurille J.; Mason, Thomas L.; Tirrell, David A.; Larmat, Fernando; Reynolds, John R.
 CORPORATE SOURCE: Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, 01003, USA
 SOURCE: Polymer Preprints (American Chemical Society, Division

Agnes Rooke 10/015, 956

of Polymer Chemistry) (1995), 36(2), 154-5
CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer
Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 04 Jan 1996

AB The recombinant protein of sequence [(GlyAla)3Gly-3TA]13 (3TA = 3-thienylalanine) was electrochem. polymerized with 3-methylthiophene in a three electrode cell using Bu4N+ ClO4- and hexafluoroisopropanol.

CC 35-7 (Chemistry of Synthetic High Polymers)

ST thienylalanine protein sequence electrochem polymn;
methylthiophene copolymer thienylalanine protein
sequence

IT 173028-96-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(electrochem. polymerization of thienylalanine-containing protein
sequence with 3-methylthiophene)

L12 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:692796 CAPLUS

DOCUMENT NUMBER: 123:333370

TITLE: Bifunctional hybrid artificial proteins

AUTHOR(S): Dong. Wu; Fournier, Maurille J.; Mason, Thomas L.;
Tirrell, David A.

CORPORATE SOURCE: Dep. Polymer Sci. Eng., Univ. Massachusetts, Amherst,
MA, 01003, USA

SOURCE: Polymer Preprints (American Chemical Society, Division
of Polymer Chemistry) (1994), 35(2), 419-20
CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer
Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 21 Jul 1995

AB A hybrid protein was designed to contain the repetitive polypeptide
-[-(Ala-Gly)3-Glu-Gly]36 bound to a bacterial phosphotriesterase. The
protein was prepared by recombinant DNA technol. and purified. A large
proportion of the hybrid protein formed inactive, insol. inclusion bodies,
which were attributed to the enzyme domain. Activity was detected in the
small portion of the expressed hybrid protein that remained soluble. The
bifunctional nature of the protein was demonstrated in that the repetitive
polypeptide domain gave rise to high affinity for DEAE-Sephadex A-50 anion
exchange resin and the enzyme domain retained its catalytic activity.

CC 7-2 (Enzymes)

Section cross-reference(s): 6

IT 9047-01-2DP, Phosphotriesterase, fusion products with repetitive
polypeptide 170832-41-4DP, fusion products with
phosphotriesterase

RL: BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); BPR (Biological process); BSU (Biological
study, unclassified); PUR (Purification or recovery); BIOL (Biological
study); PREP (Preparation); PROC (Process)
(bifunctional hybrid artificial proteins)

L12 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:534753 CAPLUS

DOCUMENT NUMBER: 119:134753

TITLE: Analysis of synthetic proteins by matrix-assisted
laser desorption mass spectrometry

AUTHOR(S): Beavis, Ronald C.; Chait, Brian T.; Creel, Howard S.; Fournier, Maurille J.; Mason, Thomas L.; Tirrell, David A.

CORPORATE SOURCE: Lab. Mass Spectrom. Gas Phase Ion Chem., Rockefeller Univ., New York, NY, 10021, USA

SOURCE: Polymeric Materials Science and Engineering (1992), 66, 27
CODEN: PMSEDG; ISSN: 0743-0515

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 02 Oct 1993

AB The authors report the use of matrix-assisted laser desorption mass spectrometry (MALDMS) in the anal. of a synthetic protein produced as part of an ongoing investigation of the crystallization behavior of periodic polypeptides. This anal. demonstrates the power of the technique for the fast, accurate determination of mol. weight and points the way to the use of MALDMS as a method for the sequencing of proteins.

CC 9-5 (Biochemical Methods)
Section cross-reference(s): 6, 34

ST protein sequence laser desorption mass spectrometry

IT Protein sequence determination
(by matrix-assisted laser desorption mass spectrometry)

L12 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:546659 CAPLUS
DOCUMENT NUMBER: 117:146659

TITLE: Analysis of artificial proteins by matrix-assisted laser desorption mass spectrometry

AUTHOR(S): Beavis, Ronald C.; Chait, Brian T.; Creel, Howard S.; Fournier, Maurille J.; Mason, Thomas L.; Tirrell, David A.

CORPORATE SOURCE: Lab. Mass Spectrom. Gas Phase Ion Chem., Rockefeller Univ., New York, NY, 10021, USA

SOURCE: Journal of the American Chemical Society (1992), 114(19), 7584-5
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 17 Oct 1992

AB An artificial protein containing the repeated undecapeptide sequence (AlaGly)₄ProGluGly was expressed in Escherichia coli and analyzed by PAGE and matrix-assisted laser desorption mass spectrometry. Electrophoretic anal. revealed no contaminants in the purified product but suggested a mol. weight more than twice that expected. Accurate determination of the mol. weight by mass spectrometry prompted discovery of sequence errors in the DNA code for the protein, and the mass spectrum revealed the presence of small polypeptide fragments thought to be products of proteolysis. Anal. of these fragments shows that each is related to the next by addition or deletion of a single amino acid residue, such that portions of the protein sequence can be read directly from the mass spectrum.

CC 9-16 (Biochemical Methods)
Section cross-reference(s): 6

ST protein sequence detn mass spectrometry

IT Protein sequence determination
(mass spectrometric, of proteins)

L12 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:158401 CAPLUS

DOCUMENT NUMBER: 114:158401
 TITLE: Synthesis and expression of an artificial gene encoding a novel sequential polypeptide
 AUTHOR(S): McGrath, Kevin P.; Fournier, Maurille J.; Mason, Thomas L.; Tirrell, David A.
 CORPORATE SOURCE: Dep. Polym. Sci. Eng., Univ. Massachusetts, Amherst, MA, 01003, USA
 SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1990), 31(1), 190-1
 CODEN: ACPPAY; ISSN: 0032-3934
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 03 May 1991
 AB A new approach to the preparation of polymers with precisely controlled chain microstructure is presented. By exploiting the high fidelity of protein biosynthesis, coupled with recent advances in the synthesis, cloning, and expression of genes, polymers are prepared in which each of the most important structural variables of the chain is under tight control. Polymers prepared by these methods are pure materials; monodisperse in mol. weight, of defined sequence and composition, and stereochem. pure. Thus these methods are regarded as the logical successor to the chemical techniques (Ziegler-Natta and living polymers.) that have provided, over the last 3 decades, increasing control over chain architecture. The implications are revolutionary, particularly in the design and construction of ordered polymeric solids.
 CC 3-4 (Biochemical Genetics)
 Section cross-reference(s): 6, 34
 IT Protein sequences
 (of artificial protein KM3-28 and monomer repeat segment)

L12 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1987:63289 CAPLUS
 DOCUMENT NUMBER: 106:63289
 TITLE: Competitive adsorption of divalent cations and cationic polyelectrolytes on phosphatidylglycerol bilayer membranes
 AUTHOR(S): Turek, Anne B.; Tirrell, David A.
 CORPORATE SOURCE: Dep. Chem., Carnegie-Mellon Univ., Pittsburgh, PA, 15213, USA
 SOURCE: Journal of Bioactive and Compatible Polymers (1986), 1(3), 309-15
 CODEN: JBCPEV; ISSN: 0883-9115
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 07 Mar 1987
 AB DSC was used to study the competitive binding of divalent cation (Mg^{2+} or Ca^{2+}) and cationic polyelectrolyte [ionene-6,10-bromide (I)] to dipalmitoylphosphatidylglycerol bilayers. Mg^{2+} -induced membrane transitions were completely reversed by I, indicating complete displacement of bound Mg^{2+} by I. Ca^{2+} -induced transitions were only partially reversed by I, suggesting the coexistence of Ca^{2+} - and I-membrane complexes. The modulation of bilayer properties by polyelectrolyte adsorption may be related to the bactericidal action of polycations.
 CC 6-6 (General Biochemistry)
 Section cross-reference(s): 10
 IT Microbicidal and microbiostatic action
 (bactericidal, of polycations, phosphatidylglycerol bilayer modulation in relation to)

Agnes Rooke 10/015,956

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